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December 24, 2002
420-01

Ms. Leona Winner
Hazardous Substances Scientist
Department of Toxic Substance Control
8800 Cal Center Drive
Sacramento, CA 95826

RECEIVED DEC 27 2002

Re: LaBarron Investments
2100 East Orangethorpe Avenue
Fullerton, California

Dear Ms. Winner:

Enclosed please find three copies of our report entitled "Soil and Soil Vapor Assessment, Labarron Investments, 2100 East Orangethorpe Avenue, Fullerton, California" dated December 4, 2002.

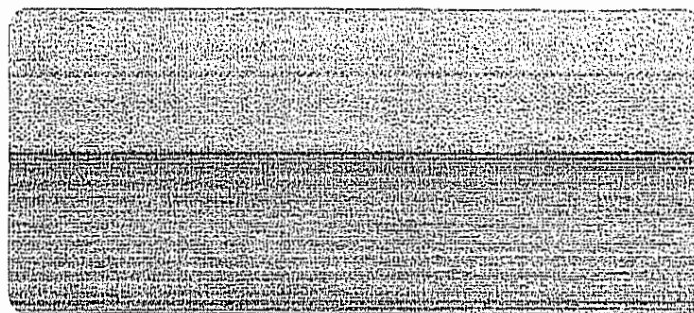
Please phone us at (949) 723-1645 with any questions.

Sincerely,
FREY Environmental, Inc.

Joe Frey
Principal Registered
Engineering Geologist
CEG #1500

cc: Eddie Fischer
LaBarron Investments
2020 East Orangethorpe Avenue
Fullerton, California 92831





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Environmental Geologists, Engineers, Assessors

OCVOCEF 000594

**SOIL AND SOIL VAPOR ASSESSMENT
LABARRON INVESTMENTS
2100 EAST ORANGETHORPE AVENUE
FULLERTON, CALIFORNIA**

Prepared for:

**LaBarron Investments
2020 East Orangethorpe Avenue
Fullerton, California 92831**

Prepared by:

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Project No.: 420-01

December 4, 2002

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1.0 INTRODUCTION

This report presents the results of soil and soil vapor sampling activities conducted at 2100 East Orangethorpe Avenue in Fullerton, California (Site - Figure 1). The activities described below were conducted in general accordance with a revised RCRA Facility Investigation Workplan prepared by FREY Environmental, Inc. (FREY) dated October 15, 2002 and approved by the Department of Toxic Substance Control in a letter to LaBarron Investments dated October 18, 2002.

2.0 BACKGROUND

2.1 FORMER FACILITY OPERATIONS

The facility was constructed in the late 1950's by the Trent Tube Company. The Trent Tube Company manufactured stainless steel tubing until 1984. The manufacturing process required the use of numerous regulated chemicals including oil, kerosene, liquid hydrogen, liquid ammonia, organic solvents, acids and pickle liquor.

Trent Tube constructed one building with approximate dimensions of 300 feet from north to south and 130 feet from east to west. The majority of the building housed the manufacturing operations for the Trent Tube Company. Offices, a laboratory and a locker room were located in the northernmost section of the building. A second building used for maintenance activities was located on the eastern portion of the Site. The maintenance building had approximate dimensions of 40 feet by 60 feet (DTSC, 2000).

2.2 CHEMICAL / CHEMICAL WASTE STORAGE AREAS

The DTSC identified five areas of the Site where chemicals and/or chemical waste were either used or stored for extended periods of time. The five areas discussed below are shown on Figure 2.

1. Drum Storage Area: Fifty five gallon capacity, steel drums were formerly located on the south side of the manufacturing building as shown on Figure 2. Soil samples previously collected from this area have reportedly contained perchloroethene (PCE), 1,1,1-trichloroethane (1,1,1-TCA), ethylbenzene and xylenes at concentrations of 1.7 parts per million (ppm), 1.5 ppm, 1.7 ppm and 1.7 ppm, respectively (DTSC, 2000).
2. Aboveground Waste Oil Tanks: Two, 200 gallon capacity, aboveground, steel tanks were formerly located on concrete and set within a brick berm in the approximate area shown on Figure 2. It was reported that soils were excavated from this area and transported off Site for disposal (DTSC, 2000).

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3. Aboveground Pickle Liquor Tanks: Two, 2,000 gallon capacity, aboveground tanks were formerly located inside the southeast portion of the manufacturing building. Pickle liquor generally consists of hydrochloric acid which is effective in removing unwanted metallic deposits from steel. It was reported that the spent pickle liquor contained hexavalent chromium and possibly lead (DTSC, 2000).
4. Degreasing Pit: It was reported that a 10,000 gallon capacity degreasing pit was located in the central portion of the manufacturing building. The degreasing pit reportedly may have contained 1,1,1-TCA, PCE and/or trichloroethene (TCE) (DTSC, 2000).
5. Southern Property Line: It was reported that an approximate 50 foot by 200 foot area located south of the manufacturing building was used for the aeration of soils which reportedly contained organic solvents at concentrations up to 5 ppm. It was reported that aerated soils were placed in the top two feet of soil (DTSC, 2000).

The Department of Health Services issued a certification of closure for the Site in a letter dated April 16, 1985 (DHS, 1985). No further background information was made available to FREY at the time of this document preparation (DTSC, 2000).

2.3 CURRENT SITE CONFIGURATION

The Site comprises approximately 5.2 acres of flat ground on the south side of East Orangethorpe Avenue approximately equidistant between State College Boulevard and Acacia Avenue in Fullerton, California. The Site parcel is rectangular in shape with dimensions of approximately 550 feet from north to south and 415 feet from east to west. The Site elevation is approximately 187 feet above mean sea level (Topo, 1987).

One building is currently located on Site and it is the same building as the larger building originally constructed by the Trent Tube Company. The northern most section of the Site building is currently used as office space while the majority of the building is used for recreational vehicle storage. An addition to the building was constructed on the southwest corner of the original building at an unspecified date. The addition to the building is used for recreational vehicle repair.

The entire Site is paved with concrete with the exception of some small planters located along the northern building perimeter and the frontage with East Orangethorpe Avenue.

The Site is bound by a Vista Paint facility on the west, East Orangethorpe Avenue and a BASF facility to the north, a self storage facility on the east and a thin strip (approximately 40 feet) of Vista Paint parcel and Carbon Creek on the south.

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2.4 HYDROGEOLOGIC SETTING

Soils beneath the Site consist of silt and sand from below the concrete to approximately 2 feet below the ground surface (bgs). Fine to coarse grained sand is located below the silt and sand and extends to a depth of approximately 20 feet bgs (Moore & Taber, 1984). Soil lithology beneath 20 feet bgs has not been investigated.

Regionally, the Site is located on the northeastern section of the Orange County Coastal Plain, which is part of the larger Coastal Plain of Los Angeles (OCWD, 1984). The central and northern portions of the Orange County Coastal Plain consist of downfolded strata of Upper Pleistocene and older age strata, that form a broad synclinal trough. The trough includes successively permeable and impermeable strata that reach a depth of up to 20,000 feet near the Anaheim area (OCWD, 1982).

The Upper Pleistocene and older unconsolidated deposits consist predominantly of marine and lagoonal sediments that include interbedded silts and clays with occasional lenses of sand and gravel. These deposits overlie a thick sequence of Late Cretaceous to Quaternary-age semiconsolidated sedimentary rocks and basement units (OCWD, 1984). The Upper Pleistocene and older formations are overlain by recent alluvium, derived from the surrounding hills and the Santa Ana River. Recent alluvial deposits attain a maximum thickness of approximately 300 feet in the Site area, and consist of sands with interbedded gravels, silts and clays (OCWD, 1984).

The Site is located in the Main Santa Ana Pressure Groundwater Sub-basin, within the Lower Santa Ana Watershed (RWQCB, 1984). The Site area is located within a pressure zone where semi-confined to confined water conditions may exist. Groundwater is estimated to flow toward the west-southwest in the Site Vicinity (OCWD, 1984). First groundwater is estimated to be located at approximately 80 feet bgs (DTSC, 2000).

2.5 NEAREST GROUNDWATER PRODUCTION WELL

The City of Fullerton operates a groundwater production well (labeled Kimberly Well #2) south of Kimberly Avenue and east of Acacia Avenue. Kimberly Well #2 is located approximately 1,500 feet to the north-northwest of the Site (Fullerton, 2002).

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3.0 OBJECTIVES

The objectives of the work described below were to assess the presence of: 1) volatile organic compounds and selected metals in soil; and, 2) volatile organic compounds in soil vapor beneath the Site.

4.0 SCOPE OF WORK

The scope of work, designed to provide the information needed to meet the objectives of the investigation, was as follows:

- Implement a site-specific health and safety plan;
- Advance 20 soil borings to depths between 1 to 20 feet below the ground surface (bgs);
- Collect soil samples at depths of 1, 5, 10 or 20 feet bgs dependent on borehole depth;
- Field screen collected soil samples for total undifferentiated volatile organic compounds (UVOCs);
- Advance 8 soil vapor probes to depths of 5 feet bgs;
- Advance 1 soil vapor probe to a depth of 20 feet bgs. Collect vapor samples at depths of 10 feet bgs and 20 feet bgs;
- Analyze selected soil and soil vapor samples for chemical constituents;
- Evaluate data and prepare a report discussing field activities conducted as part of this investigation.

A more detailed description of the field investigation and laboratory testing program is provided in Section 5.0.

5.0 CURRENT INVESTIGATION

FREY marked the proposed soil boring and soil gas sampling locations 72 hours prior to drilling activities. FREY obtained an underground service alert number prior to the conduct of any drilling or soil gas sampling activities.

On the morning of October 22, 2002, FREY held a health and safety meeting on Site prior to the conduct of any drilling or soil gas sampling activities. The health and safety meeting was attended by members of the DTSC, FREY, the drilling contractor and the mobile laboratory chemist. The DTSC approved health and safety plan was discussed and Site specific concerns were highlighted by FREY during the health and safety meeting.

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5.1 SOIL VAPOR SAMPLING

Soil vapor probes SV1 through SV8 were advanced in locations mutually agreed upon, on October 22, 2002, by personnel from FREY and the DTSC as shown on Figure 2. Four inch diameter concrete cores were drilled in the agreed upon vapor probe locations just prior to the conduct of probe advancement operations.

Soil vapor samples were collected using a Post Run Tubing System which is described in greater detail in the field procedures section in Appendix A. Each soil vapor probe was purged of approximately 3 probe volumes prior to sample collection. The probe volume of 0.005 cubic feet was calculated by multiplying the 2-inch probe hole diameter by the retracted probe height of approximately 3-inches. Soil vapor was purged into a 1-liter tedlar bag until it was approximately one half full which equates to approximately 0.015 cubic feet or 3 probe volumes.

The sample tubing was replaced between the purging of the probe and the sample collection. Soil vapor samples were collected in laboratory supplied 1-liter tedlar bags with a peristaltic pump. Soil vapor samples were labeled with the job number, time of sample collection, date, soil vapor probe number and depth of sample. Soil vapor samples were delivered to the on-Site mobile laboratory immediately after sample collection.

5.1.1. Former Degreaser Pit

Soil vapor samples were collected from boring B1 from depths of 10 feet bgs and 20 feet bgs using the protocol described in Section 5.1.

5.1.2. Drum Storage Areas

Soil vapor samples were collected at depths of 5-feet bgs from soil vapor probes SV1 through SV4 using the protocol described in Section 5.1.

5.1.3. Southern Property Line

Soil vapor samples were collected at depths of 5-feet bgs from soil vapor probes SV5 through SV8 using the protocol described in Section 5.1.

5.2 ADVANCEMENT AND SAMPLING OF SOIL BORINGS

Soil borings B1 through B20 were drilled in locations mutually agreed upon on October 22, 2002 by personnel from FREY and the DTSC as shown on Figure 2. Where applicable, soil borings were advanced through the same 4-inch concrete core as the soil vapor probes. Additional 4-inch cores were drilled through the concrete in the locations of borings B2 through B9 and borings B18, B19 and B20.

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Field procedures used in the advancement and sampling of soil borings B1 through B20 are presented in Appendix A. Boring logs and explanations regarding the format, terms and soil classification system used to describe the soil conditions are presented in Appendix B.

5.2.1. Former Degreasing Pit

Soil borings B1, B2, B3 and B4 were advanced on the north, east, south and west sides, respectively, of the former degreasing pit. Soil borings B1, B2, B3 and B4 were advanced to final depths of 20 feet bgs (boring B1) and 10 feet bgs (borings B2, B3 and B4) with a direct push drilling rig.

Soil samples were collected from boring B1 at depths of 2, 10 and 20 feet bgs. Soil samples were collected from borings B2, B3 and B4 at depths of 1 and 10 feet bgs. Soil samples were collected in a 2-inch diameter California split spoon sampler lined with acetate driven into native soils with the direct push drilling rig. The split spoon sampler was opened and the acetate liner transported directly to the sample preparation table.

FREY collected five, 5-gram samples according to EPA 5035 sampling protocol. The five, 5-gram samplers were placed in sample bags which were labeled with the job number, time of sample collection, date, borehole number and depth of sample. Soil samples collected according to EPA 5035 protocol were transported directly to the on-Site mobile laboratory for analyses.

The acetate liner was cut to remove areas which had been sampled according to 5035 protocol. An approximate 6-inch piece of the remaining acetate liner was cut and capped with teflon tape and a plastic cap. Each sample was labeled with the job number, time of sample collection, date, borehole number and depth of sample and placed in a cooler. These samples were picked up by a courier from American Scientific Laboratories after the completion of sampling activities on October 22, 2002.

Soil remaining in each acetate liner not used for sampling purposes was visually examined for staining or odors which may be associated with the presence of VOCs or metals. In addition, soil remaining in each acetate liner was also examined for UVOCs with a photoionization detector (PID) as explained in Appendix A. UVOC concentrations in excess of 1 part per million (ppm) were not detected in the soil samples collected from borings B1, B2, B3 or B4.

Soil borings B1, B2, B3 and B4 were backfilled with bentonite powder, hydrated and resurfaced with approximately 6 inches of concrete.

5.2.2. Aboveground Pickle Liquor Tanks

Soil borings B5 and B6 were advanced in the northwest and southwest footprint of the former aboveground pickle liquor tanks. Soil boring B7 was advanced in the eastern side of the former aboveground pickle liquor tanks.

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Soil borings B5, B6, and B7 were advanced to final depths of 1 foot bgs using a hand operated auger. One soil sample was collected from the bottom of each borehole in a 2.25-inch diameter sample barrel lined with a 2-inch diameter brass or stainless steel tube. A slide hammer was used to drive the sample barrel into native soils at the bottom of each boring.

The 2-inch diameter tube was extruded from the sample barrel and each end of the tube capped with teflon tape and fitted with an air tight end cap. Each sample was labeled with the job number, time of sample collection, date, borehole number and depth of sample and placed in a cooler. These samples were picked up by a courier from American Scientific Laboratories after the completion of sampling activities on October 22, 2002.

Soils excavated as part of the hand auger drilling process were visually examined for staining or odors which may be associated with the presence of VOCs or metals. A PID was used to monitor UVOC concentrations emanating from each borehole and from the soil pile created during soil boring operations. UVOC concentrations in excess of 1 ppm were not detected in the soils generated during the drilling of borings B5, B6 or B7.

After the completion of drilling activities, excavated soils were placed into their respective boreholes, compacted with a tamping rod and resurfaced with approximately 6-inches of concrete.

5.2.3. Aboveground Waste Oil Tanks

Soil borings B8 and B9 were advanced to final depths of 2 feet bgs using a hand operated auger. One soil sample was collected from the bottom of each borehole in a 2.25-inch diameter sample barrel lined with a 2-inch diameter brass or stainless steel tube. A slide hammer was used to drive the sample barrel into native soils at the bottom of the boring.

The 2-inch diameter tube was extruded from the sample barrel and each end of the tube capped with teflon tape and fitted with an air tight end cap. Soil samples collected from borings B8 and B9 were labeled with the job number, time of sample collection, date, borehole number and depth of sample. These samples were picked up by a courier from American Scientific Laboratories after the completion of sampling activities on October 22, 2002.

Soils excavated as part of the hand auger drilling process were visually examined for staining or odors which may be associated with the presence of VOCs or metals. A PID was used to monitor UVOC concentrations emanating from each borehole and from the soil pile created during soil boring operations. UVOC concentrations in excess of 1 ppm were not detected in the soils generated during the advancement of borings B8 or B9.

After the completion of drilling activities, excavated soils were placed into their respective boreholes, compacted with a tamping rod and resurfaced with approximately 6-inches of concrete.

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5.2.4. Drum Storage Areas

Soil borings B10 and B11 were advanced outside the southern wall of the Site building approximately 6 feet and 48 feet west of the southeastern building corner. Soil borings B12 and B13 were drilled inside the building addition (described in Section 2.2) at distances of 14 feet and 53 feet from the western building wall (Figure 2).

Soil borings B10, B11, and B13 were advanced to final depths of 10 feet bgs with a direct push drilling rig. Soil boring B12 was drilled to a final depth of 10 feet bgs with a hand operated auger. Soil samples were collected from borings B10, B11, B12 and B13 from depths of 1, 5 and 10 feet bgs.

Soil samples were collected from borings B10, B11 and B13 in a 2-inch diameter California split spoon sampler lined with acetate driven into native soils with the direct push drilling rig. The split spoon sampler was opened and the acetate liner transported directly to the sample preparation table. An approximate 6-inch piece of sample of acetate liner was cut from that portion of the liner positioned nearest to the shoe in the sampler. Each end of the 6-inch portion of acetate liner was capped with teflon tape and an air tight plastic cap and labeled with the job number, time of sample collection, date, borehole number and depth of sample.

The 2-inch diameter tube was extruded from the sample barrel and each end of the tube capped with teflon tape and fitted with an air tight end cap. The soil samples collected from B12 were labeled with the job number, time of sample collection, date, borehole number and depth of sample. Soil samples collected from borings B10 through B13 were picked up by a courier from American Scientific Laboratories after the completion of sampling activities on October 22, 2002.

Soil remaining in each acetate liner not used for sampling purposes was visually examined for staining or odors which may be associated with the presence of VOCs or metals. In addition, soil remaining in each acetate liner was also examined for UVOCs with a PID as explained in Appendix B. UVOC concentrations in excess of 1 ppm were not detected in the soil samples collected from borings B10 through B13.

Soil borings B10, B11 and B13 were backfilled with bentonite powder, hydrated and resurfaced with approximately 6 inches of concrete. Approximately one vertical foot of medium bentonite chips were placed in the bottom of the boring B12 and hydrated with 2 gallons of tap water. Boring B12 was then backfilled with soil cuttings and resurfaced with approximately 6 inches of concrete.

5.2.5. Southern Property Line

Soil borings B14 through B17 were advanced along the southern property line in the locations shown on Figure 2. Soil borings B14 through B17 were advanced to final depths of 10 feet bgs with a direct push drilling rig.

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Soil samples were collected from borings B14 through B17 from depths of 1, 5 and 10 feet bgs. Soil samples were collected from borings B14 through B17 in a 2-inch diameter California split spoon sampler lined with acetate driven into native soils with the direct push drilling rig. The split spoon sampler was opened and the acetate liner transported directly to the sample preparation table. An approximate 6-inch piece of sample of acetate liner was cut from that portion of the liner positioned nearest to the shoe in the sampler. Each end of the 6-inch portion of acetate liner was capped with teflon tape and an air tight plastic cap and labeled with the job number, time of sample collection, date, borehole number and depth of sample. Soil samples collected from borings B14 through B17 were picked up by a courier from American Scientific Laboratories after the completion of sampling activities on October 22, 2002.

Soil remaining in each acetate liner not used for sampling purposes was visually examined for staining or odors which may be associated with the presence of VOCs or metals. In addition, soil remaining in each acetate liner was also examined for UVOCs with a PID as explained in Appendix B. UVOC concentrations in excess of 1 ppm were not detected in the soil samples collected from borings B14 through B17.

Soil borings B14 through B17 were backfilled with bentonite powder, hydrated and resurfaced with approximately 6 inches of concrete.

5.2.6. Background Soil Samples

Soil borings B18, B19 and B20 were drilled in the locations shown on Figure 2. The background soil sample locations were selected as these locations were believed to have been away from any chemical usage areas of the Site.

Soil borings B18, B19, and B20 were advanced to final depths of 3 feet bgs using a hand operated auger. One soil sample was collected from the bottom of each borehole in a 2.25-inch diameter sample barrel lined with a 2-inch diameter brass or stainless steel tube. A slide hammer was used to drive the sample barrel into native soils at the bottom of the boring.

FREY collected five, 5-gram samples according to EPA 5035 sampling protocol. The five, 5-gram samplers were placed in sample bags which were labeled with the job number, time of sample collection, date, borehole number and depth of sample. Soil samples collected according to EPA 5035 protocol were transported directly to the on-Site mobile laboratory for analyses.

Soil remaining in the 2-inch diameter tube was extruded from the sample barrel and each end of the tube capped with teflon tape and fitted with an air tight end cap. Soil samples collected from borings B18, B19 and B20 were labeled with the job number, time of sample collection, date, borehole number and depth of sample. Soil samples collected in 2-inch diameter brass tubes from borings B18 through B20 were picked up by a courier from American Scientific Laboratories after the completion of sampling activities on October 22, 2002.

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Soils excavated as part of the hand auger drilling process were visually examined for staining or odors which may be associated with the presence of VOCs or metals. A PID was used to monitor UVOC concentrations emanating from each borehole and from the soil pile created during soil boring operations. UVOC concentrations in excess of 1 ppm were not detected in the soils generated during the drilling of borings B18, B19 or B20.

After the completion of drilling activities, excavated soils were placed into their respective boreholes, compacted with a tamping rod and resurfaced with approximately 6-inches of concrete.

5.3 LABORATORY ANALYSES

5.3.1 Soil Samples

Soil samples collected from borings B1 through B4 were analyzed for volatile organic compounds according to EPA Method No. 8260B. In addition, soil samples collected from borings B1 through B4 were also analyzed for hexavalent chromium, nickel and total lead in accordance with EPA Method Nos. 7196A, 6010 and 7421, respectively.

Soil samples collected from borings B5, B6 and B7 were analyzed for hexavalent chromium, nickel and total lead in accordance with EPA Method Nos. 7196A, 6010 and 7421, respectively. In addition, soil samples collected from borings B5, B6 and B7 were also analyzed for hydrogen ion concentration (pH) in accordance with EPA Method No. 150.1.

Soil samples collected from borings B8 and B9 were analyzed for nickel, total chrome and total lead in accordance with EPA Method Nos. 6010, 6010 and 7421, respectively. In addition, soil samples collected from borings B8 and B9 were also analyzed for total recoverable petroleum hydrocarbons (TRPH) in accordance with EPA Method No. 418.1.

Soil samples collected from borings B10 through B17 were analyzed for nickel, total chrome and total lead in accordance with EPA Method Nos. 6010, 6010 and 7421, respectively.

Soil samples collected from borings B18, B19 and B20 were analyzed for all constituents discussed for borings B1 through B17 with the exception of pH.

Soil samples submitted for VOC and TRPH analyses were conducted on-Site in a mobile laboratory provided by Baseline On-Site Analysis, a State of California licensed hazardous waste testing laboratory based in Huntington Beach, California. Soil samples submitted for metals analyses and pH analyses were conducted at American Scientific Laboratories, a State of California licensed hazardous waste testing laboratory based in Los Angeles, California.

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5.3.2 Soil Vapor Samples

Soil vapor samples collected from boring B1 and soil vapor probes SV1 through SV8 were analyzed for volatile organic compounds and fuel oxygenates in accordance with EPA Method No. 8260B. Soil vapor samples were analyzed in an on-Site mobile laboratory provided by Baseline On-Site Analysis, a licensed hazardous waste testing laboratory based in Huntington Beach, California.

6.0 RESULTS OF THE INVESTIGATION

6.1 SOIL LITHOLOGY

In general, subsurface materials encountered during drilling operations generally consisted of fine to medium grained sands from just below the concrete surface to the bottom of the deepest boring at approximately 20 feet bgs.

Exceptions to the fine to medium sand lithology were a silty fine grained sand which was observed in borings B10 through B13 from beneath the concrete surface to approximately 3 feet bgs and throughout the length of boring B15. In addition, a sandy clay was present in boring B16 from just below the concrete surface to approximately 3 feet bgs.

6.2 LABORATORY ANALYSES

Laboratory and quality assurance/quality control reports appear in Appendix C.

6.2.1 Analytical Data for Soil Vapor

Soil vapor samples collected from boring B1 at depths of 10 and 20 feet bgs and vapor samples collected from probes SV1 through SV7 contained concentrations of various chlorinated VOCs. Concentrations of VOCs were limited to analytes such as tetrachloroethene (PCE), trichloroethene (TCE), cis -1,2-dichloroethene (cis 1,2-DCE), 1,1-dichloroethene (1,1-DCE), 1,1-dichloroethane (1,1-DCA), 1,1,1-trichloroethane (1,1,1-TCA) and 1,1,1,2 tetrachloroethane (1,1,1,2-PCA). VOCs were not detected in the soil vapor sample collected from SV8.

PCE was the VOC analyte detected in the greatest concentration at 130 micrograms per liter (ug/L) (SV2-5). Soil vapor sample SV2-5 was collected from soil vapor probe SV2 from a depth of 5 feet bgs. SV2 was advanced in the location of a former chemical storage area located in the building addition to the southwest corner of the main Site building.

1,1,1-TCA was detected at concentrations ranging from 24 ug/L to 86 ug/L. 1,1,1-TCA was not detected in SV2-5, SV5-5, SV6-5, SV7-5 or SV8-5. The highest concentration of 1,1,1-TCA was detected in soil vapor probe B1-10 was collected from boring B1 at a depth of 10 feet bgs on the north side of the former degreasing tank.

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1,1-DCE was detected at concentrations ranging from 5.2 ug/L to 80 ug/L. The highest concentration of 1,1-DCE was detected in soil vapor probe B1-10. 1,1-DCE was not detected in SV2-5, SV7-5 or SV8-5.

Soil vapor sample SV1-5 contained the greatest concentration of TCE (38 ug/L), 1,1-DCA (9.5 ug/L) and cis-1,2-DCE (16 ug/L). Soil vapor sample SV1-5 was collected from soil vapor probe SV1 from a depth of 5 feet bgs. SV1 was advanced in the location of a former chemical storage area located in the building addition to the southwest corner of the main Site building.

Soil vapor sample results have been summarized in Table 1.

6.2.2 Analytical Data for Soil

VOCs were not detected in soil samples collected as part of this investigation. TRPH was detected at a concentration of 59 milligrams per kilogram (mg/kg) in soil sample B9-2, drilled and sampled in the southeastern portion of the former aboveground oil tank storage area. TRPH was not detected in soil sample B8-2.

Total chromium was detected at concentrations ranging from 1.81 mg/kg to 381 mg/kg in soil samples collected from borings B8 through B20. Total chromium was detected at concentrations ranging from 7.16 mg/kg to 10.8 mg/kg in the background soil samples collected from borings B18, B19 and B20. Soil samples collected from borings B1 through B7 did not contain concentrations of total chromium above the laboratory detection limit of 5 mg/kg.

Hexavalent chromium was detected at concentrations ranging from 0.13 mg/kg to 1.15 mg/kg in soil samples collected from a depth of 1 foot from borings B1, B2, B5, B6 and B7. Hexavalent chromium was not detected in soil samples collected from borings B3, B4, B8 and B9 or from soil samples collected from depths of 10 feet from borings B1 and B2. Background soil samples collected from borings B18, B19 and B20 contained hexavalent chromium at concentrations ranging from 0.16 mg/kg to 0.20 mg/kg.

Total lead and nickel were present in all soil samples collected as part of this investigation. The greatest concentrations of total lead and nickel were 25.7 mg/kg (B13-1) and 71.2 mg/kg (B14-1), respectively.

Soil samples B5-1, B6-1 and B7-1 had pH readings between 8.47 and 8.97 while background samples had pH readings between 8.56 and 9.04.

Soil sample VOC and TRPH results have been summarized in Table 2. Soil sample results for metals analyses have been summarized in Table 3.

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7.0 CONCLUSIONS

The following conclusions have been drawn based on data collected during this investigation:

7.1 SOIL

- VOCs were not detected above the laboratory detection limits of 5 ug/kg in soil samples collected from borings B1 through B4 or in the background samples collected from B18 through B20.
- Low concentrations of TRPH (59 mg/kg) were detected in soil sample B9-2, collected from the southeast portion of the former waste oil aboveground tank locations. Soil sample B8-2, drilled and sampled approximately 20 feet to the northwest of B9-2, did not contain TRPH above the laboratory detection limit of 10 mg/kg.
- Soil sample B15-1, collected from a depth of approximately one foot bgs from boring B15 drilled along the southern property line, contained the greatest concentration of total chromium (381 mg/kg) which is below the Environmental Protection Agency's Preliminary Remediation Goal (PRG) for Industrial Soils of 450 mg/kg.
- The greatest concentrations of hexavalent chromium (1.15 mg/kg), total lead (25.7 mg/kg) and nickel (71.2 mg/kg) detected in soil samples collected as part of this investigation were well below PRGs for Industrial Soils as published by the EPA. PRGs for Industrial Soils for hexavalent chromium, total lead and nickel are 64 mg/kg, 450 mg/kg and 41,000 mg/kg, respectively.

7.2 SOIL VAPOR

- Relatively low concentrations of chlorinated VOCs were detected in soil vapor samples collected as part of this investigation with the exception of SV8-5. Chlorinated VOCs were not detected in soil vapor sample SV8-5.
- PCE was the chlorinated VOC detected in the greatest concentration (130 ug/L) and detected in the greatest number of soil vapor samples (8 out of 9 soil vapor samples).
- Concentrations of chlorinated VOCs in general decreased with depth in soil vapor samples collected from B1. Concentrations of 1,1-DCE decreased from 80 ug/L at 10 feet bgs to 17 ug/L at 20 feet bgs. Concentrations of 1,1,1-TCA decreased from 86 ug/L at 10 feet bgs to 24 ug/L at 20 feet bgs.

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- In general, soil vapor samples collected along the southern property line (SV5 through SV8) contained lower concentrations of chlorinated VOCs than soil vapor samples collected from the former waste storage areas (SV1 through SV4).

8.0 LIMITATIONS

The judgements described in this report are professional opinions based solely within the limits of the scope of work authorized, and pertain to conditions judged to be present or applicable at the time the work was performed. Future conditions may differ from those described herein, and this report is not intended for future evaluations of this Site unless an update is conducted by a consultant familiar with environmental assessments.

This report was compiled partially on information supplied to FREY Environmental, Inc. from outside sources, other information that is in the public domain and a visual inspection of the property. FREY Environmental, Inc. makes no warranty as to the accuracy of statements made by others, which may be contained in this report, nor are any other warranties or guarantees, expressed or implied, included or intended by the report, except that it has been prepared in accordance with the current accepted practices and standards consistent with the level of care and skill exercised under similar circumstances by other professional consultants or firms performing similar services.

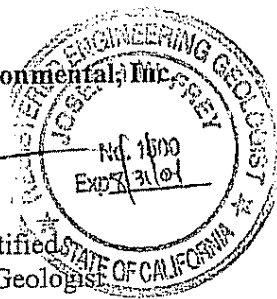
Site conditions may change with time as the result of natural alterations or man-made changes on this or adjacent properties. Future environmental investigations conducted at the Site may reveal Site conditions not indicated in the data reviewed by FREY Environmental, Inc. Additionally, changes in standards or regulations applicable to the Site may occur. The findings of this report may be partially or wholly invalidated by changes of which FREY Environmental, Inc. is not aware or has not had the opportunity to evaluate.

Environmental assessments provide an additional source on information regarding the environmental conditions of a particular property or facility. The report is a professional opinion and judgement to the Client, dependent upon FREY's knowledge and information obtained during the course of performance of the services.

Sincerely,

FREY Environmental, Inc.

Joe Frey
Principal Certified
Engineering Geologist
CEG #1500



EP

Evan Privett
Senior Project Geologist

FREY

REFERENCES

- DHS (Department of Health Services), 1985, Certification of Closure letter addressed to Robert M. Phillips, Trent Tube Division dated April 16, 1985.
- DTSC (Department of Toxic Substances), 2000; *RCRA Facility Assessment for Trent Tube Division, Crucible Materials Corporation, 2100 East Orangethorpe Avenue, Fullerton, California 92634*; dated May 2000.
- EPA (Environmental Protection Agency), Preliminary Remediation Goals dated November 1, 2000
- Fullerton, City of, Water Engineering Department, personnel communication on December 2, 2002.
- Moore & Taber, 1984; *Foundation Investigation, Commercial Property, 2100 Orangethorpe Avenue, Fullerton, California*, dated August 16, 1984.
- OCWD (Orange County Water District), 1982, Talbert Barrier Status Report, July 1979-June 1982, dated November 1982.
- , 1984, Groundwater Management, Irvine area, Orange County, California.
- RWQCB (Regional Water Quality Control Board - Santa Ana Region), 1984, Water Quality Control Plan, Santa Ana River Basin.
- USGS (United States Geological Survey), 1966, 7.5-minute topographic quadrangle of Anaheim, California, photorevised 1988.

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Tables

OCVOCEF 000613

TABLES

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TABLE 1
CHEMICAL ANALYSES OF SOIL VAPOR SAMPLES

LABARRON INVESTMENTS
2100 EAST ORANGETHORPE AVENUE
FULLERTON, CALIFORNIA

(results in micrograms per liter)

SAMPLE NUMBER	DATE SAMPLED	SAMPLE LOCATION	cis-1,2-DCE	TCE	PCE	1,1-DCE	1,1-DCA	1,1,1-TCA	1,1,1,2-PCA
B1-10	10/22/2002	North Side of Former	5.5	8.6	28	80	9.0	86	ND<1.0
B1-20	10/22/2002	Degreasing Pit	7.7	9.9	25	17	5.2	24	ND<1.0
SV1-5	10/22/2002	Former Waste Storage Area	16	38	74	8.7	9.5	76	ND<1.0
SV2-5	10/22/2002	Former Waste Storage Area	1.3	5.3	130	ND<1.0	ND<1.0	ND<1.0	ND<1.0
SV3-5	10/22/2002	Former Waste Storage Area	7.2	22	96	16	5.1	54	ND<1.0
SV4-5	10/22/2002	Former Waste Storage Area	5.1	15	47	23	3.4	39	ND<1.0
SV5-5	10/22/2002	Southern Property Line	1.7	7.0	37	12	ND<1.0	ND<1.0	ND<1.0
SV6-5	10/22/2002	Southern Property Line	5.5	13	63	5.2	4.3	ND<1.0	56
SV7-5	10/22/2002	Southern Property Line	3.9	5.5	43	ND<1.0	ND<1.0	ND<1.0	ND<1.0
SV8-5	10/22/2002	Southern Property Line	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Notes									
1	Soil vapor samples were analyzed in general accordance with EPA Method No. 8260B for the full list of compounds. Only detected compounds have been listed in this table.								
2	ND<1.0 - Chemical constituent not present above the stated detection limit.								

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TABLE 2
VOLATILE ORGANIC COMPOUND ANALYSES OF SOIL SAMPLES

LABARRON INVESTMENTS
2100 EAST ORANGETHORPE AVENUE
FULLERTON, CALIFORNIA

(results in micrograms per kilogram)

SAMPLE NUMBER	DEPTH OF SAMPLE	SAMPLE LOCATION	DATE SAMPLED	TRPH	cis 1,2-DCE	TCE	PCE	1,1-DCE	1,1-DCA	1,1,1-TCA
B1-2	2	North Side of Degreasing Pit	10/22/02	ND<10,000	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
B1-10	10		10/22/02	ND<10,000	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
B1-20	20		10/22/02	ND<10,000	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
B2-1	1	East Side of Degreasing Pit	10/22/02	ND<10,000	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
B2-10	10		10/22/02	ND<10,000	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
B3-1	1	South Side of Degreasing Pit	10/22/02	ND<10,000	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
B3-10	10		10/22/02	ND<10,000	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
B4-1	1	West Side of Degreasing Pit	10/22/02	ND<10,000	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
B4-10	10		10/22/02	ND<10,000	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
B8-2	2	Fomer AboveGround Waste Oil Tank	10/22/02	ND<10,000	NA	NA	NA	NA	NA	NA
B9-2	2	Fomer AboveGround Waste Oil Tank	10/22/02	59,000	NA	NA	NA	NA	NA	NA
B18-1	3	Background Sample Northwestern Portion of Site	10/22/02	ND<10,000	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0

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OCVOCEF 000616

TABLE 2
VOLATILE ORGANIC COMPOUND ANALYSES OF SOIL SAMPLES

LABARRON INVESTMENTS
2100 EAST ORANGETHORPE AVENUE
FULLERTON, CALIFORNIA

(results in micrograms per kilogram)

SAMPLE NUMBER	DEPTH OF SAMPLE	SAMPLE LOCATION	DATE SAMPLED	TRPH	cis 1,2-DCE	TCE	PCE	1,1-DCE	1,1-DCA	1,1,1-TCA
B19-1	3	Background Sample Northeastern Portion of Site	10/22/02	ND<10,000	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
B20-1	3	Background Sample Southeastern Portion of Site	10/22/02	ND<10,000	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
<p>Notes</p> <p>1 TRPH = Total recoverable petroleum hydrocarbons analyzed in general accordance with EPA Method No. 418.1</p> <p>2 Soil samples analyzed for EPA 8260B full list including fuel oxygenates.</p> <p>3 NA = Not analyzed for listed constituent</p>										

TABLE 3
METAL ANALYSES OF SOIL SAMPLES

LABARRON INVESTMENTS
2100 EAST ORANGETHORPE AVENUE
FULLERTON, CALIFORNIA

(results in milligrams per kilogram)

SAMPLE NUMBER	DEPTH OF SAMPLE	SAMPLE LOCATION	DATE SAMPLED	TOTAL CHROMIUM	HEXAVALENT CHROMIUM	TOTAL LEAD	NICKEL	pH
B13-1	1	Fomer Drum	10/22/2002	49.9	NA	25.7	51.6	NA
B13-5	5	Storage Area	10/22/2002	5.90	NA	0.90	6.03	NA
B13-10	10		10/22/2002	9.81	NA	0.57	5.63	NA
B14-1	1	Southeast Corner	10/22/2002	57.5	NA	5.19	71.2	NA
B14-5	5	of Site	10/22/2002	4.61	NA	1.16	5.30	NA
B14-10	10		10/22/2002	2.81	NA	0.57	2.78	NA
B15-1	1	Southern Property	10/22/2002	381	NA	17.3	67.4	NA
B15-5	5	Line	10/22/2002	4.44	NA	0.62	2.87	NA
B15-10	10		10/22/2002	3.95	NA	1.24	4.61	NA
B16-1	1	Southern Property	10/22/2002	25.4	NA	7.52	19.1	NA
B16-5	5	Line	10/22/2002	10.2	NA	2.45	11.0	NA
B16-10	10		10/22/2002	3.68	NA	1.01	3.87	NA
B17-1	1	Southern Property	10/22/2002	7.14	NA	3.57	8.93	NA
B17-5	5	Line	10/22/2002	4.18	NA	0.98	4.53	NA
B17-10	10		10/22/2002	2.51	NA	1.04	2.41	NA
B18-3	3	Background Sample Northwestern Portion of Site	10/22/2002	10.8	0.20	7.76	16.4	8.56
B19-3	3	Background Sample Northeastern Portion of Site	10/22/2002	7.85	0.17	1.97	7.95	9.04
B20-3	3	Background Sample Southeastern Portion of Site	10/22/2002	7.16	0.16	2.25	8.78	8.84
EPA PRG (Industrial Soils)				450	64	750	41,000	
<p>Notes</p> <p>1 TRPH = Total recoverable petroleum hydrocarbons analyzed in general accordance with EPA Method No. 418.1</p> <p>2 Soil samples analyzed for EPA 8260B full list including fuel oxygenates</p> <p>3 NA = Not analyzed for listed constituent</p>								

TABLE 3
METAL ANALYSES OF SOIL SAMPLES

LABARRON INVESTMENTS
2100 EAST ORANGETHORPE AVENUE
FULLERTON, CALIFORNIA

(results in milligrams per kilogram)

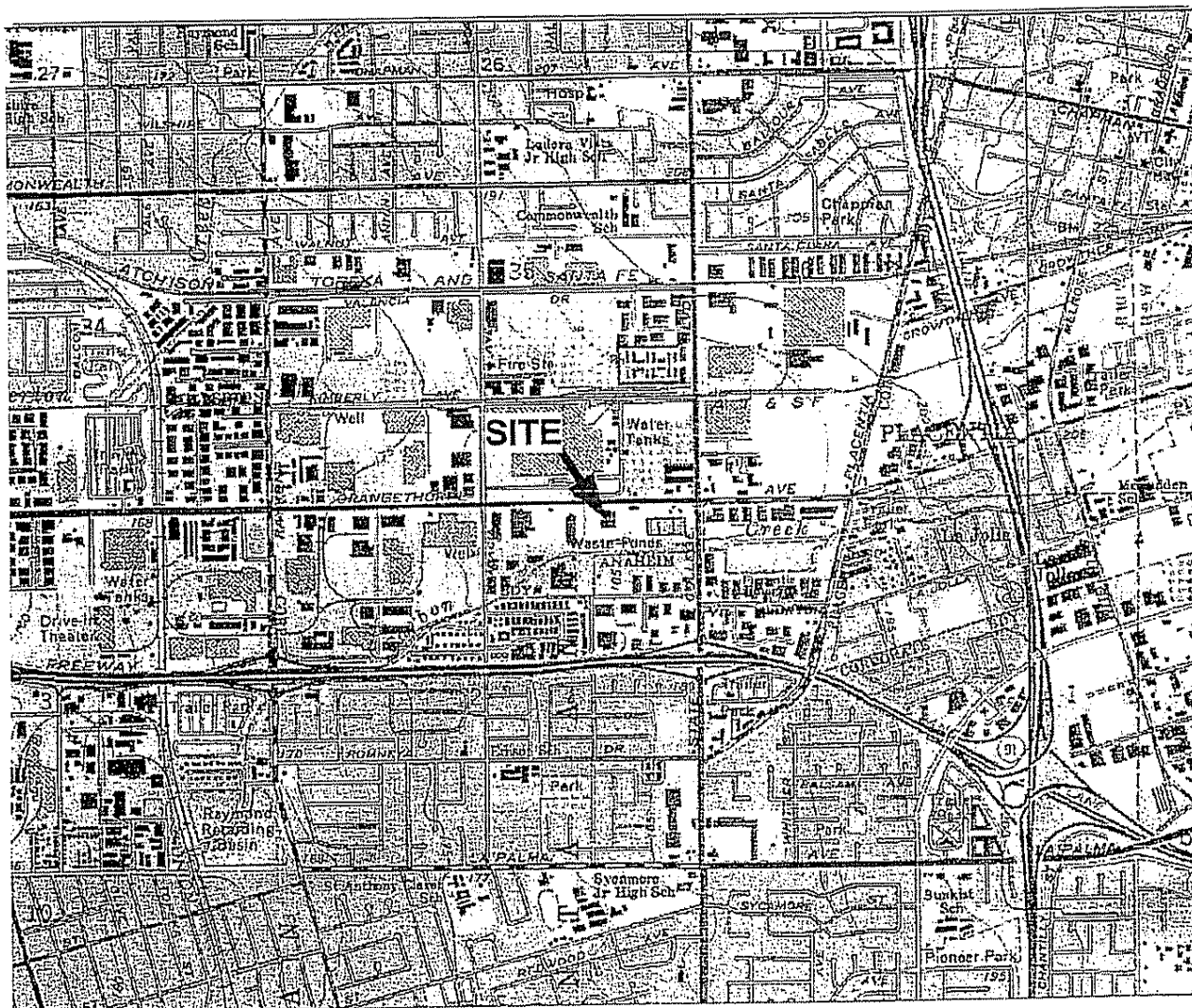
SAMPLE NUMBER	DEPTH OF SAMPLE	SAMPLE LOCATION	DATE SAMPLED	TOTAL CHROMIUM	HEXAVALENT CHROMIUM	TOTAL LEAD	NICKEL	pH
B1-2	2	North Side of	10/22/2002	ND<5.0	0.13	2.23	11.5	NA
B1-10	10	Degreasing Pit	10/22/2002	ND<5.0	ND<0.100	0.81	2.02	NA
B2-1	1	East Side of	10/22/2002	ND<5.0	0.24	1.12	4.13	NA
B2-10	10	Degreasing Pit	10/22/2002	ND<5.0	ND<0.100	0.95	3.81	NA
B3-1	1	South Side of	10/22/2002	ND<5.0	ND<0.100	1.38	4.66	NA
B3-10	10	Degreasing Pit	10/22/2002	ND<5.0	ND<0.100	0.76	3.02	NA
B4-1	1	West Side of	10/22/2002	ND<5.0	ND<0.100	1.05	4.35	NA
B4-10	10	Degreasing Pit	10/22/2002	ND<5.0	ND<0.100	1.01	3.53	NA
B5-1	1	Northwest Portion of Former Process Tanks	10/22/2002	ND<5.0	0.32	3.00	12.2	8.97
B6-1	1	Southwest Portion of Former Process Tanks	10/22/2002	ND<5.0	0.17	2.40	9.19	8.68
B7-1	1	Eastern Portion of Former Process Tanks	10/22/2002	ND<5.0	1.15	9.51	16.9	8.47
B8-2	2	Fomer AboveGround Waste Oil Tank	10/22/2002	11.3	ND<5.0	3.21	11.6	NA
B9-2	2	Fomer AboveGround Waste Oil Tank	10/22/2002	11.0	ND<5.0	4.78	10.5	NA
B10-1	1	Fomer Acid	10/22/2002	10.4	NA	2.61	12.9	NA
B10-5	5	Storage Area	10/22/2002	1.81	NA	0.60	2.28	NA
B10-10	10		10/22/2002	3.03	NA	0.74	2.54	NA
B11-1	1	Fomer Kerosene	10/22/2002	17.2	NA	9.71	15.5	NA
B11-5	5	Storage Area	10/22/2002	2.07	NA	0.73	2.67	NA
B11-10	10		10/22/2002	2.88	NA	0.65	3.20	NA
B12-1	1	Fomer Drum	10/22/2002	26.6	NA	8.52	31.3	NA
B12-5	5	Storage Area	10/22/2002	4.00	NA	0.84	4.84	NA
B12-10	10		10/22/2002	4.26	NA	1.00	4.21	NA

Figures

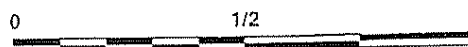
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FIGURES

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NORTH



SCALE IN MILES

FORMER TRENT TUBE FULLERTON
2100 EAST ORANGETHORPE
FULLERTON, CALIFORNIA

Client: LABARRON INVESTMENTS

Project No.: 420-01

FREY ENVIRONMENTAL, INC.

NOTE:

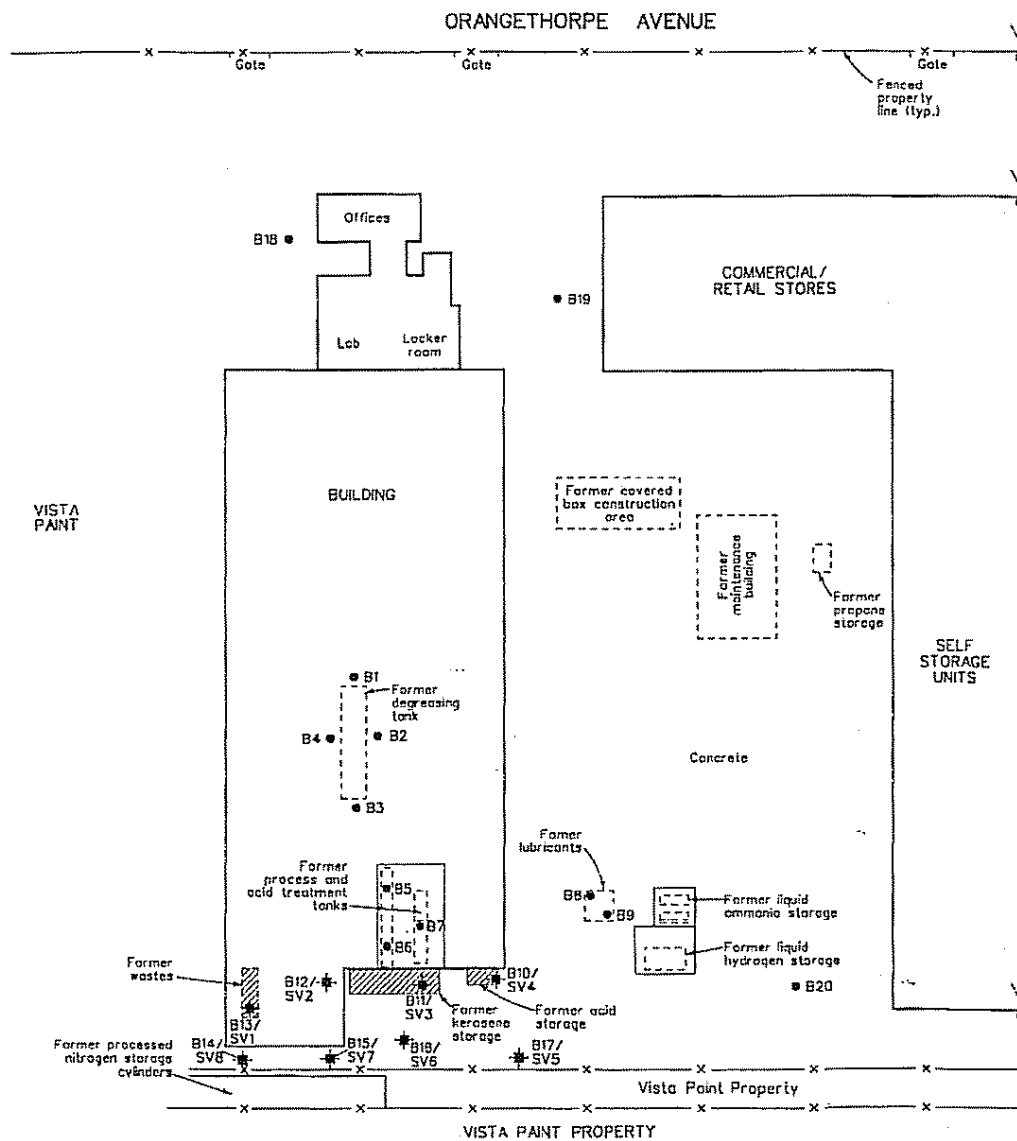
- 1) All locations and dimensions are approximate.
- 2) Base map from USGS 7.5 minute California topographic quadrangle, printed from Topo.

SITE LOCATION MAP

Date: AUGUST 2002

Figure: 1

OCVOCEF 000622



EXPLANATION

- BARREL STORAGE AREA
- B17/SV5 SOIL BORING AND VAPOR PROBE LOCATIONS
- B1 SOIL BORING LOCATIONS

NOTES:

- 1) All locations and dimensions are approximate.
- 2) Base map from drawing provided by Trent Tube Fullerton titled "Facility Map", not dated, and site notes by FREY Environmental, Inc.



0 60 120
APPROXIMATE SCALE IN FEET

FORMER TRENT TUBE FULLERTON
2100, EAST ORANGETHORPE
FULLERTON, CALIFORNIA

Client: LABARRON INVESTMENTS Project No.: 420-01

FREY ENVIRONMENTAL, INC.

**SITE SKETCH
SHOWING SOIL BORING AND
SOIL VAPOR PROBE LOCATIONS**

Date: NOVEMBER 2002

Figure 2

Appendix A

APPENDIX A
FIELD PROCEDURES

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APPENDIX A FIELD PROCEDURES

A.1 DRILLING PROCEDURES

1. Borings B12, B13, B15, B17 and B18 were advanced with a direct push drill rig. Boring B16 was drilled with a hollow stem auger drilling rig.
2. Down hole drilling equipment was steam-cleaned prior to use at the Site and was cleaned between each boring.
3. Soil descriptions, sample type and depth, and related drilling information were recorded on a boring log under the supervision of a State-Certified Engineering Geologist from FREY Environmental, Inc.
4. Soil samples were collected using a split-spoon modified California sampler.
5. Samplers were cleaned between sample intervals using a brush and tap water rinse followed by a brush and TSP solution (non-phosphate), a tap water rinse, and deionized water rinse. The sampler was dried by air or with a towel prior to sampling.
6. Soil samples collected from borings B12, B13, B15, B17 and B18 were collected in 1-inch diameter acetate liner. Soil samples collected from boring B16 were collected in 2-inch by 6-inch brass tubes.
7. Following retrieval of the sampler, the liner or brass tubes were removed from the sampler, and, given sample recovery, the ends covered with teflon tape, capped with PVC endcaps. Each sample was labeled.
8. The samples were placed in ziploc bags and stored in a cooler packed with ice.
9. The samples were delivered to a State of California-certified hazardous waste testing laboratory following collection. Sample handling, transport, and delivery to the laboratory are documented using Chain-of-Custody forms.

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A.2 HEAD-SPACE ANALYSIS

1. Samples were extruded directly into the mason jar and capped.
2. The sample was allowed to equilibrate.
3. The sample was then connected to a flame ionization detector, organic vapor analyzer.
4. The maximum gauge reading was recorded as the concentration in parts per million (ppm) (volume to volume).

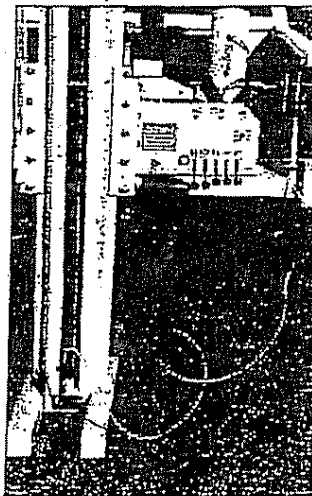
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Soil Gas Sampling

Post-Run Tubing System

The Post-Run Tubing System

The Post-Run Tubing System (PRT) allows the user to collect soil vapor samples quickly and easily at the desired sampling depth **WITHOUT** the time-consuming complications associated with rod leakage and contamination. O-ring connections enable the PRT system to deliver a vacuum-tight seal that prevents sample contamination from UP hole, and assures that the sample is taken from the desired depth at the **BOTTOM** of the hole. The sample is drawn through the point holder, through the adapter, and into the sample tubing. The tubing can be replaced after each sample, thus eliminating sample carryover problems and the need to decontaminate the probe rods. The resulting time-savings translates into a higher productivity rate for you and your client.

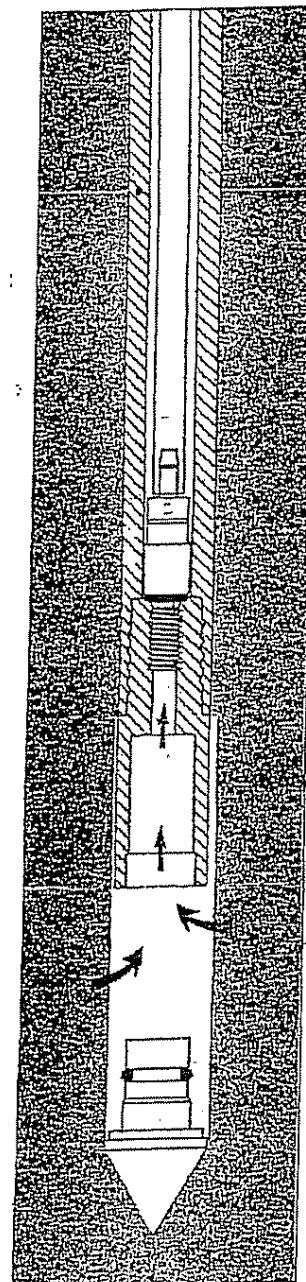


Using the Post-Run Tubing (PRT) system for soil vapor sampling.

Sampling Methods

Some of the more common methods of active soil gas sample collection include:

- Direct sampling from the PRT using a gas chromatograph-compatible syringe used when the Geoprobe van is equipped with a mobile laboratory and gas chromatograph for immediate analysis of the collected samples.
- Inline sampling using glass sampling bulbs or Tedlar bags. The sampling device is placed inline, between the PRT adapter and the vacuum/volume system. As the sampling system is purged, soil gas is trapped in the bulb or bag. These samples may be stored for limited periods of time and either analyzed on site or at an off-site laboratory.
- Summa canisters, pre-evacuated steel devices that are connected to the surface end to the PRT tubing, also provide another sampling option for soil gas. A valve on the canister is opened and the vacuum inside the canister pulls in soil gases from the sample interval. This system is expensive and is usually reserved for sending samples to an off-site laboratory for specialized analyses or quality control purposes.



A cross section of the PRT System showing how soil gas (arrows) is drawn through the inner tubing system.

FIELD QUESTION ...



Q. Is it possible to use a retractable point with the PRT system?

A. Yes! You will need a Retractable Point (ATZ1B) with a PRT Retractable Point Holder (PR21B). (See page 8.)

Appendix B

APPENDIX B
BORINGS LOGS

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Date drilled/completed _____
 Geologist _____
 Drilling equipment _____
 Surface elevation _____

Top of casing elevation _____
 Boring depth _____
 Water depth _____
 Well screen depth _____

Depth	EPA Method 8015 (mg/kg)	Headspace (ppmv)	Well Construction Detail	Sample Type	Blow Counts	Sample No.	Graphic Log	U.S.C.S. Classification	Description	Remarks
0										
1									SM Light brown, dry, Silty SAND with trace fine Gravel	
2									Description based on field classification and visual soil description and is further modified to include results of laboratory classification tests, where available.	
3										
4										
5										
6	<1	<1			32	5			U. S. C. S. Symbol	
7									Graphic presentation of boring log	
8									Sample identification number	
9									Number of blows to advance sampler one foot using a 140 pound hammer with a 30 inch drop	
10									Sample location and type	No petroleum hydrocarbon odor
11									Field sample headdress readings for a description of the methods used see appendices	
12									Concentrations of analyte with specified EPA Method No.	
13										
14										
15										
16										
17										
18									Description of well materials used	
19									Graphic presentation of well construction	
20										
21										
22									Remarks, and odor observations	
23										
24										
25										
26										
27										
28										
29										
30										

Project Name _____
 Project Number _____

KEY TO BORING LOGS

Log of Boring _____
 Figure No. _____

FREY ENVIRONMENTAL, INC.

OCVOCEF 000631

SOIL DESCRIPTION

MOISTURE CONTENT		CONSISTENCY AND DENSITY (assumes Modified Standard Penetration Test)	
DRY	No perceptible moisture	Fine-grained soils (consistency)	
			blows/foot
DAMP	Some perceptible moisture, no moisture remains on hands after squeezing	very soft	0 - 2
		soft	2 - 4
		firm	4 - 8
MOIST	Perceptible moisture, moisture remains on hands after squeezing	stiff	8 - 16
		very stiff	16 - 32
WET	Some pore/voids filled with liquid, typical of capillary fringes	Fine-grained soils (consistency)	
			blows/foot
SATURATED	All pore/voids filled with liquid, free fluid visible, typical of below ground water table	very loose	0 - 4
		loose	4 - 10
		medium-dense	10 - 30
		dense	30 - 60
		very dense	over 60

GRADING

Well Graded

Wide range of grain sizes and substantial amounts of all intermediate particle sizes

Poorly Graded

Predominantly one grain size or is obviously missing intermediate grain sizes

MODIFIERS

trace	<5%
minor	5 - 12%
some	12 - 20%

PERCENTAGES

5%	12%	20%	50%
----	-----	-----	-----

UNIFIED SOIL CLASSIFICATION SYSTEM (USCS)

MAJOR DIVISIONS			Group Symbol	Graphic Symbol	GROUP NAME
Coarse-grained Soils More than 50% retained on no. 200 sieve	Gravels 50% or more of coarse fraction retained on no. 4 sieve	Clean Gravels	GW		Well-graded GRAVEL Well-graded GRAVEL with Sand
		Gravels with fines	GP		Poorly-graded GRAVEL Poorly-graded GRAVEL with Sand
			GM		Silty GRAVEL Silty GRAVEL with Sand
			GC		Clayey GRAVEL Clayey GRAVEL with Sand
	Sands More than 50% of coarse fraction passes no. 4 sieve	Clean Sands	SW		Well-graded SAND Well-graded SAND with Gravel
		Sands with fines	SP		Poorly-graded SAND Poorly-graded SAND with Gravel
			SM		Silty SAND / Clayey SAND with Gravel
			SC		Silty SAND / Clayey SAND with Gravel
Fine-grained Soils 50% or more passes no. 200 sieve	Silt and Clays Liquid limit 50% or less	ML		SILT / SILT with Sand or Gravel Sandy SILT / Silty SILT with Gravel Gravelly SILT / Gravelly SILT with Sand	
		CL		Lean CLAY / Lean CLAY with Sand or Gravel Sandy lean CLAY / Silty lean CLAY with Gravel Gravelly lean CLAY / Gravelly lean CLAY with Sand	
		OL		Organic SILTS or organic CLAYS of low plasticity	
		Clays and Silts Liquid limit greater than 50%	MH		Elastic SILT / Elastic SILT with Sand or Gravel Sandy elastic SILT / Silty elastic SILT with Gravel Gravelly elastic SILT / Gravelly elastic SILT with Sand
	CH			Fat CLAY / Fat CLAY with Sand or Gravel Sandy fat CLAY / Silty fat CLAY with Gravel Gravelly fat CLAY / Gravelly fat CLAY with Sand	
	OH			Organic CLAYS or organic SILTS of medium to high plasticity	
	Highly Organic Soils		PT		PEAT, MUCK and other highly organic soils

SAMPLE TYPES

	2" O. D. modified California Sampler	2" O. D. manual driven hand Sampler	1" O. D. Geoprobe liner Sampler
Relatively Undisturbed			
Disturbed			
No Recovery			

NOTES:

1) Subsurface information from boring and test pit logs depict conditions only at the specific locations and dates indicated. Soil conditions and water levels at other locations may differ from conditions at these locations. Also the conditions at these locations may change with time.

2) Blow counts on logs are the number of blows to drive the sampler 12 inches with a 140 pound hammer falling 30 inches unless otherwise specified.

3) USCS soil classification reference = ASTM Standard D2487-85.

1-1-98 water level and data measured (if applicable)

FREY ENVIRONMENTAL, INC.

**BORING LOG LEGEND AND
UNIFIED SOIL CLASSIFICATION SYSTEM**

Date drilled/completed October 22, 2002
 Geologist M. Eder
 Drilling equipment Geoprobe
 Surface elevation Approx. 185 feet MSL

Top of casing elevation NA
 Boring depth Approx. 22 feet BGS
 Water depth Not encountered
 Well screen depth NA

Depth	EPA Method 8260B (ug/kg)	Headspace (ppmv)	Well Construction Detail	Sample Type	Blow Counts	Sample No	Graphic Log	U.S.C.S. Classification	Description	Remarks
0									Concrete 4-inches thick	
1										
2	ND<5.0	<1			-	1		SP	Brown, damp. fine to medium SAND	No odor
3										
4										
5										
6										
7										
8										
9										
10										
11	ND<5.0	<1			-	10			Becomes light brown (mottled)	
12										
13										
14										
15										
16										
17										
18										
19										
20										
21	ND<5.0	<1			-	20				
22									Bottom of boring at 22 feet BGS	
23										
24										
25										
26										
27										
28										
29										
30										
Project Name FORMER TRENT TUBE FULLERTON									Log of Boring B1	Figure No. 1
Project Number 420-01										

FREY ENVIRONMENTAL, INC.

OCVOCEF 000633

Date drilled/completed October 22, 2002
 Geologist M. Eder
 Drilling equipment Geoprobe
 Surface elevation Approx. 185 feet MSL

Top of casing elevation NA
 Boring depth Approx. 12 feet BGS
 Water depth Not encountered
 Well screen depth NA

Depth	EPA Method 8260B (ug/kg)	Headspace (ppmv)	Well Construction Detail	Sample Type	Blow Counts	Sample No.	Graphic Log	U.S.C.S. Classification	Description	Remarks
0									Concrete 4-inches thick	
1										
2	ND<5.0	<1			1		SP		Light brown (mottled), damp, fine to medium SAND	No odor
3										
4										
5										
6										
7										
8										
9										
10										
11	ND<5.0	<1			10					
12									Bottom of boring at 12 feet BGS	
13										
14										
15										
16										
17										
18										
19										
20										
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29										
30										
Project Name FORMER TRENT TUBE FULLERTON									Log of Boring B2	Figure No. 1
Project Number 420-01										

FREY ENVIRONMENTAL, INC.

OCVOCEF 000634

Date drilled/completed October 22, 2002
 Geologist M. Eder
 Drilling equipment Geoprobe
 Surface elevation Approx. 185 feet MSL

Top of casing elevation NA
 Boring depth Approx. 12 feet BGS
 Water depth Not encountered
 Well screen depth NA

Depth	EPA Method 8260B (ug/kg)	Headspace (ppmv)	Well Construction Detail	Sample Type	Blow Counts	Sample No.	Graphic Log	U.S.C.S. Classification	Description	Remarks
0									Concrete 4-inches thick	
1										
2	ND<5.0	<1			1		SP		Light brown (mottled), damp, fine to medium SAND	No odor
3										
4										
5										
6										
7										
8										
9										
10										
11	ND<5.0	<1			10					
12										
13									Bottom of boring at 12 feet BGS	
14										
15										
16										
17										
18										
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30										
Project Name FORMER TRENT TUBE FULLERTON									Log of Boring B3	Figure No. 1
Project Number 420-01										

FREY ENVIRONMENTAL, INC.

OCVOCEF 000635

Date drilled/completed October 22, 2002
 Geologist M. Eder
 Drilling equipment Geoprobe
 Surface elevation Approx. 185 feet MSL

Top of casing elevation NA
 Boring depth Approx. 12 feet BGS
 Water depth Not encountered
 Well screen depth NA

Depth	EPA Method 8260B (µg/kg)	Headspace (ppmv)	Well Construction Detail	Sample Type	Blow Counts	Sample No	Graphic Log	U.S.C.S. Classification	Description	Remarks
0									Concrete 4-inches thick	
1										
2	ND<5.0	<1			1		SP		Light brown (mottled), damp, fine to medium SAND	No odor
3										
4										
5										
6										
7										
8										
9										
10										
11	ND<5.0	<1			10					
12									Bottom of boring at 12 feet BGS	
13										
14										
15										
16										
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30										
Project Name FORMER TRENT TUBE FULLERTON									Log of Boring B4	Figure No. 1
Project Number 420-01										

FREY ENVIRONMENTAL, INC.

OCVOCEF 000636

Date drilled/completed October 22, 2002
 Geologist V. Ramirez
 Drilling equipment Hand Auger
 Surface elevation Approx. 185 feet MSL

Top of casing elevation NA
 Boring depth Approx. 2 feet BGS
 Water depth Not encountered
 Well screen depth NA

Depth	EPA Method 8260B (ug/kg)	Headspace (ppmv)	Well Construction Detail	Sample Type	Blow Counts	Sample No	Graphic Log	U.S.C.S. Classification	Description	Remarks
0									Concrete 4-inches thick	
1	NA	<1		G	-	1	SP		Brown, damp, fine to medium SAND	No petroleum hydrocarbon odor
2									Bottom of boring at 2 feet BGS	
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
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30	Project Name FORMER TRENT TUBE FULLERTON Project Number 420-01								Log of Boring B5	Figure No. 1

FREY ENVIRONMENTAL, INC.

OCVOCEF 000637

Date drilled/completed October 22, 2002
 Geologist V. Ramirez
 Drilling equipment Hand Auger
 Surface elevation Approx. 185 feet MSL

Top of casing elevation NA
 Boring depth Approx. 2 feet BGS
 Water depth Not encountered
 Well screen depth NA

Depth	EPA Method 8260B (ug/kg)	Headspace (ppmv)	Well Construction Detail	Sample Type	Blow Counts	Sample No.	Graphic Log	U.S.C.S. Classification	Description	Remarks
0									Concrete 4-inches thick	No petroleum hydrocarbon odor
1	NA	<1		G	-	1	SP		Brown, damp, fine to medium SAND	
2									Bottom of boring at 2 feet BGS	
3										
4										
5										
6										
7										
8										
9										
10										
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12										
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28										
29										
30	Project Name FORMER TRENT TUBE FULLERTON Project Number 420-01								Log of Boring B6	Figure No. 1

FREY ENVIRONMENTAL, INC.

OCVOCEF 000638

Date drilled/completed October 22, 2002
 Geologist V. Ramirez
 Drilling equipment Hand Auger
 Surface elevation Approx. 185 feet MSL

Top of casing elevation NA
 Boring depth Approx. 2 feet BGS
 Water depth Not encountered
 Well screen depth NA

Depth	EPA Method 8260B (ug/kg)	Headspace (ppmv)	Well Construction Detail	Sample Type	Blow Counts	Sample No.	Graphic Log	U.S.C.S. Classification	Description	Remarks
0									Concrete 4 inches thick	
1	NA	<1		G	-	1	SP		Brown, damp, fine to medium SAND	No petroleum hydrocarbon odor
2									Bottom of boring at 2 feet BGS	
3										
4										
5										
6										
7										
8										
9										
10										
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29										
30	Project Name FORMER TRENT TUBE FULLERTON Project Number 420-01								Log of Boring B7	Figure No 1

FREY ENVIRONMENTAL, INC.

OCVOCEF 000639

Date drilled/completed October 22, 2002
 Geologist J. Moeller
 Drilling equipment Hand Auger
 Surface elevation Approx. 185 feet MSL

Top of casing elevation NA
 Boring depth Approx. 3 feet BGS
 Water depth Not encountered
 Well screen depth NA

Depth	EPA Method 8260B (ug/kg)	Headspace (ppmv)	Well Construction Detail	Sample Type	Blow Counts	Sample No.	Graphic Log	U.S.C.S. Classification	Description	Remarks
0									Concrete 4-inches thick	No petroleum hydrocarbon odor
1									Brown, damp. fine to medium SAND	
2	NA	<1		G	-	2				
3									Bottom of boring at 3 feet BGS	
4										
5										
6										
7										
8										
9										
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29										
30	Project Name FORMER TRENT TUBE FULLERTON Project Number 420-01								Log of Boring B8	Figure No. 1

FREY ENVIRONMENTAL, INC.

OCVOCEF 000640

Date drilled/completed October 22, 2002
 Geologist J. Moeller
 Drilling equipment Hand Auger
 Surface elevation Approx. 185 feet MSL

Top of casing elevation NA
 Boring depth Approx. 3 feet BGS
 Water depth Not encountered
 Well screen depth NA

Depth	EPA Method 8260B (µg/kg)	Headspace (ppmv)	Well Construction Detail	Sample Type	Blow Counts	Sample No	Graphic Log	U.S.C.S. Classification	Description	Remarks
0									Concrete 4-inches thick	
1								SP	Brown, damp, fine to medium SAND	
2	NA	<1		G	-	2				No petroleum hydrocarbon odor
3									Bottom of boring at 3 feet BGS	
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
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29										
30	Project Name FORMER TRENT TUBE FULLERTON Project Number 420-01								Log of Boring B9	Figure No. 1

FREY ENVIRONMENTAL, INC.

OCVOCEF 000641

Date drilled/completed October 22, 2002
 Geologist M. Eder
 Drilling equipment Geoprobe
 Surface elevation Approx. 185 feet MSL

Top of casing elevation NA
 Boring depth Approx. 12 feet BGS
 Water depth Not encountered
 Well screen depth NA

Depth	EPA Method 8200B (ug/kg)	Headspace (ppmv)	Well Construction Detail	Sample Type	Blow Counts	Sample No.	Graphic Log	U.S.C.S. Classification	Description	Remarks
0									Concrete 4-inches thick	
1										
2	NA	<1			1			SM	Brown, damp, Silty, fine SAND	No odor
3										
4										
5								SP	Light brown (mottled), damp, fine to medium SAND	
6	NA	<1			5					
7										
8										
9										
10										
11	NA	<1			10					
12									Bottom of boring at 12 feet BGS	
13										
14										
15										
16										
17										
18										
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20										
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22										
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30										
Project Name FORMER TRENT TUBE FULLERTON									Log of Boring	Figure No.
Project Number 420-01									B10	1

FREY ENVIRONMENTAL, INC.

OCVOCEF 000642

Date drilled/completed October 22, 2002
 Geologist M. Eder
 Drilling equipment Geoprobe
 Surface elevation Approx. 185 feet MSL

Top of casing elevation NA
 Boring depth Approx. 12 feet BGS
 Water depth Not encountered
 Well screen depth NA

Depth	EPA Method 8200B (ug/kg)	Headspace (ppmv)	Well Construction Detail	Sample Type	Blow Counts	Sample No.	Graphic Log	U.S.C.S. Classification	Description	Remarks
0									Concrete 4-inches thick	
1								SM	Brown, damp, Silty. fine to medium SAND	No odor
2	NA	<1			-	1				
3										
4								SP	Light brown (mottled), damp, fine to medium SAND	
5										
6	NA	<1			-	5				
7										
8										
9										
10										
11	NA	<1			-	10				
12									Bottom of boring at 12 feet BGS	
13										
14										
15										
16										
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18										
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Project Name FORMER TRENT TUBE FULLERTON									Log of Boring	Figure No
Project Number 420-01									B11	1

FREY ENVIRONMENTAL, INC.

OCVOCEF 000643

Date drilled/completed - October 22, 2002
 Geologist M. Eder
 Drilling equipment Geoprobe
 Surface elevation Approx. 185 feet MSL

Top of casing elevation NA
 Boring depth Approx. 12 feet BGS
 Water depth Not encountered
 Well screen depth NA

Depth	EPA Method 8260B (ug/mg)	Headspace (ppmv)	Well Construction Detail	Sample Type	Blow Counts	Sample No	Graphic Log	U.S.C.S. Classification	Description	Remarks
0									Concrete 4-inches thick	
1								SM	Brown, damp, Silty, fine to medium SAND	No odor
2	NA	<1			1					
3										
4								SP	Light brown (mottled), damp, fine to medium SAND	
5										
6	NA	<1			5					
7										
8										
9										
10										
11	NA	<1			10					
12									Bottom of boring at 12 feet BGS	
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
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27										
28										
29										
30										
Project Name FORMER TRENT TUBE FULLERTON									Log of Boring B13	Figure No. 1
Project Number 420-01										

FREY ENVIRONMENTAL, INC.

OCVOCEF 000644

Date drilled/completed October 22, 2002
 Geologist M. Eder
 Drilling equipment Geoprobe
 Surface elevation Approx. 185 feet MSL

Top of casing elevation NA
 Boring depth Approx. 12 feet BGS
 Water depth Not encountered
 Well screen depth NA

Depth	EPA Method 8260B (ug/kg)	Headspace (ppmv)	Well Construction Detail	Sample Type	Blow Counts	Sample No.	Graphic Log	U.S.C.S. Classification	Description	Remarks
0									Concrete 4-inches thick	
1										
2	NA	<1			1		SP		Brown, damp, fine to medium SAND	No odor
3										
4										
5										
6	NA	<1			5					
7										
8										
9										
10										
11	NA	<1			10					
12									Bottom of boring at 12 feet BGS	
13										
14										
15										
16										
17										
18										
19										
20										
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22										
23										
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30										
Project Name FORMER TRENT TUBE FULLERTON									Log of Boring B14	Figure No. 1
Project Number 420-01										

FREY ENVIRONMENTAL, INC.

OCVOCEF 000645

Date drilled/completed October 22, 2002
 Geologist M. Eder
 Drilling equipment Geoprobe
 Surface elevation Approx. 185 feet MSL

Top of casing elevation NA
 Boring depth Approx. 12 feet BGS
 Water depth Not encountered
 Well screen depth NA

Depth	EPA Method 8260B (µg/kg)	Headspace (ppmv)	Well Construction Detail	Sample Type	Blow Counts	Sample No	Graphic Log	U.S.C.S. Classification	Description	Remarks
0									Concrete 4-inches thick	
1										
2	NA	<1			-	1		SP	Brown, damp, Silty, fine to coarse SAND	No odor
3										
4										
5										
6	NA	<1			-	5				
7										
8										
9										
10										
11	NA	<1			-	10				
12									Bottom of boring at 12 feet BGS	
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
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26										
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Project Name FORMER TRENT TUBE FULLERTON									Log of Boring	Figure No.
Project Number 420-01									B15	1

FREY ENVIRONMENTAL, INC.

OCVOCEF 000646

Date drilled/completed October 22, 2002
 Geologist M. Eder
 Drilling equipment Geoprobe
 Surface elevation Approx. 185 feet MSL

Top of casing elevation NA
 Boring depth Approx. 12 feet BGS
 Water depth Not encountered
 Well screen depth NA

Depth	EPA Method 8200B (ug/kg)	Headspace (ppmv)	Well Construction Detail	Sample Type	Blow Counts	Sample No.	Graphic Log	U.S.C.S. Classification	Description	Remarks
0									Concrete 4-inches thick	
1										
2	NA	<1			1			CL	Gray, damp, Sandy CLAY, w/some Silt, low plasticity	Slight odor
3										
4										
5								SP	Brown, damp, fine to medium SAND w/minor amount of Silt	
6	NA	<1			5					
7										
8										
9										
10										
11	NA	<1			10				Becomes light brown (mottled), no Silt	No odor
12									Bottom of boring at 12 feet BGS	
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
Project Name FORMER TRENT TUBE FULLERTON									Log of Boring	Figure No.
Project Number 420-01									B16	1

FREY ENVIRONMENTAL, INC.

OCVOCEF 000647

Date drilled/completed October 22, 2002
 Geologist M. Eder
 Drilling equipment Geoprobe
 Surface elevation Approx. 185 feet MSL

Top of casing elevation NA
 Boring depth Approx. 12 feet BGS
 Water depth Not encountered
 Well screen depth NA

Depth	EPA Method 8200B (ug/kg)	Headspace (ppmv)	Well Construction Detail	Sample Type	Blow Counts	Sample No	Graphic Log	U.S.C.S. Classification	Description	Remarks
0									Concrete 4-inches thick	
1								SP	Brown (mottled), damp, fine to medium SAND w/minor amount of Silt	No odor
2	NA	<1			1					
3										
4										
5										
6	NA	<1			5				No Silt	
7										
8										
9										
10										
11	NA	<1			10					
12									Bottom of boring at 12 feet BGS	
13										
14										
15										
16										
17										
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19										
20										
21										
22										
23										
24										
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Project Name FORMER TRENT TUBE FULLERTON									Log of Boring	Figure No.
Project Number 420-01									B17	1

FREY ENVIRONMENTAL, INC.

OCVOCEF 000648

Date drilled/completed October 22, 2002
 Geologist V. Ramirez
 Drilling equipment Hand Auger
 Surface elevation Approx. 185 feet MSL

Top of casing elevation NA
 Boring depth Approx. 4 feet BGS
 Water depth Not encountered
 Well screen depth NA

Depth	EPA Method 8260B (ug/kg)	Headspace (bpmv)	Well Construction Detail	Sample Type	Blow Counts	Sample No	Graphic Log	U.S.C.S. Classification	Description	Remarks
0									Concrete 4-inches thick	
1								SP	Brown, damp, fine to medium SAND	
2										
3	ND<5.0	<1		G	-	3				No petroleum hydrocarbon odor
4									Bottom of boring at 4 feet BGS	
5										
6										
7										
8										
9										
10										
11										
12										
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30	Project Name FORMER TRENT TUBE FULLERTON Project Number 420-01								Log of Boring B18	Figure No 1

FREY ENVIRONMENTAL, INC.

OCVOCEF 000649

Date drilled/completed October 22, 2002
 Geologist V. Ramirez
 Drilling equipment Hand Auger
 Surface elevation Approx. 185 feet MSL

Top of casing elevation NA
 Boring depth Approx. 4 feet BGS
 Water depth Not encountered
 Well screen depth NA

Depth	EPA Method 8260B (ng/kg)	Headspace (ppmv)	Well Construction Detail	Sample Type	Blow Counts	Sample No.	Graphic Log	U.S.C.S. Classification	Description	Remarks
0									Concrete 4-inches thick	
1							SP		Brown, damp, fine to medium SAND	
2										
3	ND<5.0	<1		G	-	3				No petroleum hydrocarbon odor
4									Bottom of boring at 4 feet BGS	
5										
6										
7										
8										
9										
10										
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30	Project Name FORMER TRENT TUBE FULLERTON Project Number 420-01								Log of Boring B19	Figure No. 1

FREY ENVIRONMENTAL, INC.

OCVOCEF 000650

Date drilled/completed October 22, 2002
 Geologist V. Ramirez
 Drilling equipment Hand Auger
 Surface elevation Approx. 185 feet MSL

Top of casing elevation NA
 Boring depth Approx. 4 feet BGS
 Water depth Not encountered
 Well screen depth NA

Depth	EPA Method 8200B (ug/kg)	Headspace (ppmv)	Well Construction Detail	Sample Type	Blow Counts	Sample No.	Graphic Log	USCS Classification	Description	Remarks
0									Concrete 4-inches thick	
1								SP	Brown, damp, fine to medium SAND	
2										
3	ND<5.0	<1		G	3					No petroleum hydrocarbon odor
4									Bottom of boring at 4 feet BGS	
5										
6										
7										
8										
9										
10										
11										
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Project Name FORMER TRENT TUBE FULLERTON									Log of Boring B20	Figure No. 1
Project Number 420-01										

FREY ENVIRONMENTAL, INC.

OCVOCEF 000651

Appendix C

APPENDIX C
LABORATORY REPORTS

FREY



Baseline On-Site Analysis
P. O. Box 2243
Huntington Beach, CA 92647

Toll Free: 888.753.7553
FAX: 714.840.1584

Laboratory Report

Client: FREY Environmental, Inc.
Client Address: 2817-A Lafayette Avenue
Newport Beach, California 92618

Report Date: 11/1/02
Lab Project Number: 02457
Client Project Number: 420-01

Project Name: 2100 E. Orangethorpe Ave
Project Address: 2100 E. Orangethorpe Ave
Fullerton, California
Contact: Evan Privett

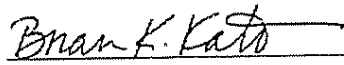
Dates Sampled: 10/22/02
Dates Received: 10/22/02
Dates Analyzed: 10/22/02
Sample Matrix: Soil & Vapor

Analyses Requested:

1. EPA 418.1 -- Total Recoverable Petroleum Hydrocarbons (TRPH)
2. EPA 8260B -- Chlorinated Volatile Organic Compounds
3. EPA 8260B -- Volatile Aromatics (BTEX)

On October 22, 2002, *Baseline* received samples from the project shown above. A Chain-of-Custody Record (COC) is attached.

Baseline analyzed the samples for the parameters shown above per the COC. In this report, *Baseline* presents the results and QA/QC summary for these analyses.


Approved
Brian K. Kato, Laboratory Manager

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Project Address: 2100 E. Orangethorpe Ave
Fullerton, California
Contact: Evan Privett

Dates Sampled: 10/22/02
Dates Received: 10/22/02
Dates Analyzed: 10/22/02
Sample Matrix: Soil

EPA 418.1: Total Recoverable Petroleum Hydrocarbons (TRPH) Results

Constituent:	TRPH
Method:	418.1
Units:	mg/kg
Sample ID	
B8-2	ND<10
B9-2	59
B18-1	ND<10
B19-1	ND<10
B20-1	ND<10
Method Blank	ND<10

ND: Not detected at the indicated reporting limit.

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OCVOCEF 000655

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Fullerton, California
Contact: Evan Privett

Report Date: 11/1/02
Lab Project Number: 02457
Client Project Number: 420-01

Dates Sampled: 10/22/02
Dates Received: 10/22/02
Dates Analyzed: 10/22/02
Sample Matrix: Soil

Volatile Aromatics (BTEX) & Chlorinated Volatile Organic Compounds (EPA 8260B)

EPA Method:	8260B	8260B	8260B	8260B	8260B	8260B
Units:	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Dilution Factor:	1	1	1	1	1	1
Sample ID:	B1-2	B1-10	B1-20	B2-1	B2-10	B3-1
Compound Name						
Volatile Aromatics (BTEX)						
Benzene	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
Toluene	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
Ethylbenzene	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
Total Xylenes	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
Chlorinated VOC's						
Carbon Tetrachloride	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
2-Chlorotoluene	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
4-Chlorotoluene	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
Chlorobenzene	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
Chloroethane	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
Chloroform	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
Chloromethane	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
1,2-Dichlorobenzene	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
1,3-Dichlorobenzene	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
1,4-Dichlorobenzene	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
Dichlorodifluoromethane	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
1,1-Dichloroethane	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
1,2-Dichloroethane	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
1,1-Dichloroethene	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
cis-1,2-Dichloroethene	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
trans-1,2-Dichloroethene	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
1,2-Dichloropropane	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
1,3-Dichloropropane	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
2,2-Dichloropropane	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
1,1-Dichloropropene	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
Hexachlorobutadiene	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
Methylene Chloride	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
Tetrachloroethene	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
1,1,1,2-Tetrachloroethane	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
1,1,2,2-Tetrachloroethane	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
1,2,3-Trichlorobenzene	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
1,2,4-Trichlorobenzene	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
1,1,1-Trichloroethane	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
1,1,2-Trichloroethane	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
Trichloroethene	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
1,2,3-Trichloropropane	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
Vinyl Chloride	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0

ND: Not detected at the indicated reporting limit.

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Project Address: 2100 E. Orangethorpe Ave
Fullerton, California
Contact: Evan Privett

Report Date: 11/1/02
Lab Project Number: 02457
Client Project Number: 420-01

Dates Sampled: 10/22/02
Dates Received: 10/22/02
Dates Analyzed: 10/22/02
Sample Matrix: Soil

Volatile Aromatics (BTEX) & Chlorinated Volatile Organic Compounds (EPA 8260B)

EPA Method:	8260B	8260B	8260B	8260B	8260B	8260B
Units:	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Dilution Factor:	1	1	1	1	1	1
Sample ID:	B3-10	B4-1	B4-10	B18-1	B19-1	B20-1
Compound Name						
Volatile Aromatics (BTEX)						
Benzene	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
Toluene	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
Ethylbenzene	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
Total Xylenes	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
Chlorinated VOC's						
Carbon Tetrachloride	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
2-Chlorotoluene	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
4-Chlorotoluene	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
Chlorobenzene	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
Chloroethane	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
Chloroform	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
Chloromethane	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
1,2-Dichlorobenzene	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
1,3-Dichlorobenzene	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
1,4-Dichlorobenzene	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
Dichlorodifluoromethane	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
1,1-Dichloroethane	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
1,2-Dichloroethane	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
1,1-Dichloroethene	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
cis-1,2-Dichloroethene	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
trans-1,2-Dichloroethene	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
1,2-Dichloropropane	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
1,3-Dichloropropane	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
2,2-Dichloropropane	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
1,1-Dichloropropene	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
Hexachlorobutadiene	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
Methylene Chloride	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
Tetrachloroethene	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
1,1,1,2-Tetrachloroethane	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
1,1,2,2-Tetrachloroethane	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
1,2,3-Trichlorobenzene	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
1,2,4-Trichlorobenzene	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
1,1,1-Trichloroethane	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
1,1,2-Trichloroethane	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
Trichloroethene	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
1,2,3-Trichloropropane	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
Vinyl Chloride	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0

ND: Not detected at the indicated reporting limit.

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Fullerton, California
Contact: Evan Privett

Report Date: 11/1/02
Lab Project Number: 02457
Client Project Number: 420-01

Dates Sampled: 10/22/02
Dates Received: 10/22/02
Dates Analyzed: 10/22/02
Sample Matrix: Soil

Volatile Aromatics (BTEX) & Chlorinated Volatile Organic Compounds (EPA 8260B)

EPA Method:	8260B
Units:	µg/kg
Dilution Factor:	1
Sample ID:	MB
Compound Name	
<u>Volatile Aromatics (BTEX)</u>	
Benzene	ND<5.0
Toluene	ND<5.0
Ethylbenzene	ND<5.0
Total Xylenes	ND<5.0
<u>Chlorinated VOC's</u>	
Carbon Tetrachloride	ND<5.0
2-Chlorotoluene	ND<5.0
4-Chlorotoluene	ND<5.0
Chlorobenzene	ND<5.0
Chloroethane	ND<5.0
Chloroform	ND<5.0
Chloromethane	ND<5.0
1,2-Dichlorobenzene	ND<5.0
1,3-Dichlorobenzene	ND<5.0
1,4-Dichlorobenzene	ND<5.0
Dichlorodifluoromethane	ND<5.0
1,1-Dichloroethane	ND<5.0
1,2-Dichloroethane	ND<5.0
1,1-Dichloroethene	ND<5.0
cis-1,2-Dichloroethene	ND<5.0
trans-1,2-Dichloroethene	ND<5.0
1,2-Dichloropropane	ND<5.0
1,3-Dichloropropane	ND<5.0
2,2-Dichloropropane	ND<5.0
1,1-Dichloropropene	ND<5.0
Hexachlorobutadiene	ND<5.0
Methylene Chloride	ND<5.0
Tetrachloroethene	ND<5.0
1,1,1,2-Tetrachloroethane	ND<5.0
1,1,2,2-Tetrachloroethane	ND<5.0
1,2,3-Trichlorobenzene	ND<5.0
1,2,4-Trichlorobenzene	ND<5.0
1,1,1-Trichloroethane	ND<5.0
1,1,2-Trichloroethane	ND<5.0
Trichloroethene	ND<5.0
1,2,3-Trichloropropane	ND<5.0
Vinyl Chloride	ND<5.0

MB: Method Blank

ND: Not detected at the indicated reporting limit

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Fullerton, California

Contact: Evan Privett

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Client Project Number: 420-01

Dates Sampled: 10/22/02
Dates Received: 10/22/02
Dates Analyzed: 10/22/02
Sample Matrix: Vapor

Volatile Aromatics (BTEX) & Chlorinated Volatile Organic Compounds (EPA 8260B)

EPA Method:	8260B	8260B	8260B	8260B	8260B	8260B
Units:	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Dilution Factor:	1	1	1	1	1	1
Sample ID:	B1-10	B1-20	SV1-5	SV2-5	SV3-5	SV4-5
Compound Name						
Volatile Aromatics (BTEX)						
Benzene	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Toluene	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Ethylbenzene	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Total Xylenes	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Chlorinated VOC's						
Carbon Tetrachloride	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
2-Chlorotoluene	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
4-Chlorotoluene	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Chlorobenzene	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Chloroethane	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Chloroform	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Chloromethane	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
1,2-Dichlorobenzene	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
1,3-Dichlorobenzene	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
1,4-Dichlorobenzene	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Dichlorodifluoromethane	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
1,1-Dichloroethane	9.0	5.2	9.5	ND<1.0	5.1	3.4
1,2-Dichloroethane	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
1,1-Dichloroethene	80	17	8.7	ND<1.0	16	23
cis-1,2-Dichloroethene	5.5	7.7	16	1.3	7.2	5.1
trans-1,2-Dichloroethene	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
1,2-Dichloropropane	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
1,3-Dichloropropane	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
2,2-Dichloropropane	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
1,1-Dichloropropene	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Hexachlorobutadiene	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Methylene Chloride	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Tetrachloroethene	28	25	74	130	96	47
1,1,1,2-Tetrachloroethane	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
1,1,2,2-Tetrachloroethane	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
1,2,3-Trichlorobenzene	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
1,2,4-Trichlorobenzene	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
1,1,1-Trichloroethane	86	24	76	ND<1.0	54	39
1,1,2-Trichloroethane	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Trichloroethene	8.6	9.9	38	5.3	22	15
1,2,3-Trichloropropane	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Vinyl Chloride	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0

ND: Not detected at the indicated reporting limit.

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Project Address: 2100 E. Orangethorpe Ave
Fullerton, California
Contact: Evan Privett

Report Date: 11/1/02
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Client Project Number: 420-01

Dates Sampled: 10/22/02
Dates Received: 10/22/02
Dates Analyzed: 10/22/02
Sample Matrix: Vapor

Volatile Aromatics (BTEX) & Chlorinated Volatile Organic Compounds (EPA 8260B)

EPA Method:	8260B	8260B	8260B	8260B		8260B
Units:	µg/L	µg/L	µg/L	µg/L		µg/L
Dilution Factor:	1	1	1	1		1
Sample ID:	SV5-5	SV6-5	SV7-5	SV8-5		MB
Compound Name						
<u>Volatile Aromatics (BTEX)</u>						
Benzene	ND<1.0	ND<1.0	ND<1.0	ND<1.0		ND<1.0
Toluene	ND<1.0	ND<1.0	ND<1.0	ND<1.0		ND<1.0
Ethylbenzene	ND<1.0	ND<1.0	ND<1.0	ND<1.0		ND<1.0
Total Xylenes	ND<1.0	ND<1.0	ND<1.0	ND<1.0		ND<1.0
<u>Chlorinated VOC's</u>						
Carbon Tetrachloride	ND<1.0	ND<1.0	ND<1.0	ND<1.0		ND<1.0
2-Chlorotoluene	ND<1.0	ND<1.0	ND<1.0	ND<1.0		ND<1.0
4-Chlorotoluene	ND<1.0	ND<1.0	ND<1.0	ND<1.0		ND<1.0
Chlorobenzene	ND<1.0	ND<1.0	ND<1.0	ND<1.0		ND<1.0
Chloroethane	ND<1.0	ND<1.0	ND<1.0	ND<1.0		ND<1.0
Chloroform	ND<1.0	ND<1.0	ND<1.0	ND<1.0		ND<1.0
Chloromethane	ND<1.0	ND<1.0	ND<1.0	ND<1.0		ND<1.0
1,2-Dichlorobenzene	ND<1.0	ND<1.0	ND<1.0	ND<1.0		ND<1.0
1,3-Dichlorobenzene	ND<1.0	ND<1.0	ND<1.0	ND<1.0		ND<1.0
1,4-Dichlorobenzene	ND<1.0	ND<1.0	ND<1.0	ND<1.0		ND<1.0
Dichlorodifluoromethane	ND<1.0	ND<1.0	ND<1.0	ND<1.0		ND<1.0
1,1-Dichloroethane	ND<1.0	4.3	ND<1.0	ND<1.0		ND<1.0
1,2-Dichloroethane	ND<1.0	ND<1.0	ND<1.0	ND<1.0		ND<1.0
1,1-Dichloroethene	12	5.2	ND<1.0	ND<1.0		ND<1.0
cis-1,2-Dichloroethene	1.7	5.5	3.9	ND<1.0		ND<1.0
trans-1,2-Dichloroethene	ND<1.0	ND<1.0	ND<1.0	ND<1.0		ND<1.0
1,2-Dichloropropane	ND<1.0	ND<1.0	ND<1.0	ND<1.0		ND<1.0
1,3-Dichloropropane	ND<1.0	ND<1.0	ND<1.0	ND<1.0		ND<1.0
2,2-Dichloropropane	ND<1.0	ND<1.0	ND<1.0	ND<1.0		ND<1.0
1,1-Dichloropropene	ND<1.0	ND<1.0	ND<1.0	ND<1.0		ND<1.0
Hexachlorobutadiene	ND<1.0	ND<1.0	ND<1.0	ND<1.0		ND<1.0
Methylene Chloride	ND<1.0	ND<1.0	ND<1.0	ND<1.0		ND<1.0
Tetrachloroethene	37	63	43	ND<1.0		ND<1.0
1,1,1,2-Tetrachloroethane	ND<1.0	56	ND<1.0	ND<1.0		ND<1.0
1,1,2,2-Tetrachloroethane	ND<1.0	ND<1.0	ND<1.0	ND<1.0		ND<1.0
1,2,3-Trichlorobenzene	ND<1.0	ND<1.0	ND<1.0	ND<1.0		ND<1.0
1,2,4-Trichlorobenzene	ND<1.0	ND<1.0	ND<1.0	ND<1.0		ND<1.0
1,1,1-Trichloroethane	ND<1.0	ND<1.0	ND<1.0	ND<1.0		ND<1.0
1,1,2-Trichloroethane	ND<1.0	ND<1.0	ND<1.0	ND<1.0		ND<1.0
Trichloroethene	7.0	13	5.5	ND<1.0		ND<1.0
1,2,3-Trichloropropane	ND<1.0	ND<1.0	ND<1.0	ND<1.0		ND<1.0
Vinyl Chloride	ND<1.0	ND<1.0	ND<1.0	ND<1.0		ND<1.0

MB: Method Blank

ND: Not detected at the indicated reporting limit

Laboratory Report

Client: FREY Environmental, Inc.
Client Address: 2817-A Lafayette Avenue
Newport Beach, California 92618

Report Date: 11/1/02
Lab Project Number: 02457
Client Project Number: 420-01

Project Name: 2100 E. Orangethorpe Ave
Project Address: 2100 E. Orangethorpe Ave
Fullerton, California
Contact: Evan Privett

Dates Sampled: 10/22/02
Dates Received: 10/22/02
Dates Analyzed: 10/22/02
Sample Matrix: Soil

Quality Control Summary - Soil Samples

Analytes	MS Recovery (%)	MSD Recovery (%)	RPD (%)	QC Sample
EPA 418.1 (TRPH)	89	93	4	B20-1
<u>EPA 8260B</u>				
1,1-Dichloroethene	97	101	4	B1-2
Benzene	96	98	2	B1-2
Trichloroethene	97	100	3	B1-2
Toluene	95	96	1	B1-2
Chlorobenzene	98	101	3	B1-2
Acceptable QC Limits:	(65-135)	(65-135)	(0-30)	

MS: Matrix Spike; MSD: Matrix Spike Duplicate; RPD: Relative Percent Difference
LCS/LCSD: Lab Control Sample/Duplicate

Laboratory Report

Client: FREY Environmental, Inc.
Client Address: 2817-A Lafayette Avenue
Newport Beach, California 92618

Report Date: 11/1/02
Lab Project Number: 02457
Client Project Number: 420-01

Project Name: 2100 E. Orangethorpe Ave
Project Address: 2100 E. Orangethorpe Ave
Fullerton, California
Contact: Evan Privett

Dates Sampled: 10/22/02
Dates Received: 10/22/02
Dates Analyzed: 10/22/02
Sample Matrix: Soil

Quality Control Summary - Vapor Samples

QC Parameter:	SAMPLE	DUPLICATE	%RSD
Units:	µg/L	µg/L	%
Method:	8260B	8260B	8260B
Sample ID:	SV1-5	SV1-5 Dup	---
Compound Name			
Carbon Tetrachloride	ND<1	ND<1	---
2-Chlorotoluene	ND<1	ND<1	---
4-Chlorotoluene	ND<1	ND<1	---
Chlorobenzene	ND<1	ND<1	---
Chloroethane	ND<1	ND<1	---
Chloroform	ND<1	ND<1	---
Chloromethane	ND<1	ND<1	---
1,2-Dibromo-3-Chloropropane	ND<1	ND<1	---
1,2-Dichlorobenzene	ND<1	ND<1	---
1,3-Dichlorobenzene	ND<1	ND<1	---
1,4-Dichlorobenzene	ND<1	ND<1	---
1,1-Dichloroethane	9.5	9.2	3.2
1,2-Dichloroethane	ND<1	ND<1	---
1,1-Dichloroethene	8.7	8.4	3.5
cis-1,2-Dichloroethene	16	16	0.0
trans-1,2-Dichloroethene	ND<1	ND<1	---
1,2-Dichloropropane	ND<1	ND<1	---
1,3-Dichloropropane	ND<1	ND<1	---
2,2-Dichloropropane	ND<1	ND<1	---
1,1-Dichloropropene	ND<1	ND<1	---
Hexachlorobutadiene	ND<1	ND<1	---
Methylene Chloride	ND<1	ND<1	---
Tetrachloroethene	74	74	0.0
1,1,1,2-Tetrachloroethane	ND<1	ND<1	---
1,1,2,2-Tetrachloroethane	ND<1	ND<1	---
1,2,3-Trichlorobenzene	ND<1	ND<1	---
1,2,4-Trichlorobenzene	ND<1	ND<1	---
1,1,1-Trichloroethane	76	64	17
1,1,2-Trichloroethane	ND<1	ND<1	---
Trichloroethene	38	39	3.2
1,2,3-Trichloropropane	ND<1	ND<1	---
Vinyl Chloride	ND<1	ND<1	---

ND: Not detected at the indicated reporting limit.

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ANALYTICAL RESULTS

Ordered By

Site

Frey Environmental, Inc.
2817 A Lafayette Ave
Newport Beach, CA 92663

2100 Orangethorpe Ave
Fullerton, CA

Telephone: (949) 723-1645

Attn: Evan Privett

Page: 2

Project ID: 420-01

Project Name: Labarron Investment

Job Number	Order Date	Client
15730	10/22/2002	FREY

Method: 6010B, Chromium (ICP)

Our Lab ID		95875	95876	95877	95878	95879
Sample ID		B8-2	B9-2	B10-1	B10-5	B10-10
Date Sampled		10/22/2002	10/22/2002	10/22/2002	10/22/2002	10/22/2002
Date Extracted		10/23/2002	10/23/2002	10/23/2002	10/23/2002	10/23/2002
Preparation Method						
Date Analyzed		10/24/2002	10/24/2002	10/24/2002	10/24/2002	10/24/2002
Matrix		Soil	Soil	Soil	Soil	Soil
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Detection Limit Multiplier		1	1	1	1	1
Analytes	PQL	Results	Results	Results	Results	Results
ICP Metals						
Chromium	0.50	11.3	11.0	10.4	1.81	3.03

QUALITY CONTROL REPORT

Analytes	LCS % REC	LCS/LCSD % Limit							
ICP Metals									
Chromium	85	80-120							

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Project ID: 420-01

Project Name: Labarron Investment

Job Number	Order Date	Client
15730	10/22/2002	FREY

Method: 6010B, Chromium (ICP)

Our Lab ID		95880	95881	95882	95883	95884
Sample ID		B11-1	B11-5	B11-10	B12-1	B12-5
Date Sampled		10/22/2002	10/22/2002	10/22/2002	10/22/2002	10/22/2002
Date Extracted		10/23/2002	10/23/2002	10/23/2002	10/23/2002	10/23/2002
Preparation Method						
Date Analyzed		10/24/2002	10/24/2002	10/24/2002	10/24/2002	10/24/2002
Matrix		Soil	Soil	Soil	Soil	Soil
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Detection Limit Multiplier		1	1	1	1	1
Analytes	PQL	Results	Results	Results	Results	Results
ICP Metals						
Chromium	0.50	17.2	2.07	2.88	26.6	4.00

QUALITY CONTROL REPORT

Analytes	LCS % REC	LCS/LCSD % Limit							
ICP Metals									
Chromium	82	80-120							

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Attn: Evan Privett

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Project ID: 420-01

Project Name: Labarron Investment

Job Number	Order Date	Client
15730	10/22/2002	FREY

Method: 6010B, Chromium (ICP)

Our Lab I.D.	95885	95886	95887	95888	95889
Sample ID	B12-10	B13-1	B13-5	B13-10	B14-1
Date Sampled	10/22/2002	10/22/2002	10/22/2002	10/22/2002	10/22/2002
Date Extracted	10/23/2002	10/23/2002	10/23/2002	10/23/2002	10/23/2002
Preparation Method					
Date Analyzed	10/24/2002	10/24/2002	10/24/2002	10/24/2002	10/24/2002
Matrix	Soil	Soil	Soil	Soil	Soil
Units	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Detection Limit Multiplier	1	1	1	1	1
Analytes	POL	Results	Results	Results	Results
ICP Metals					
Chromium	0.50	4.26	49.9	5.90	9.61

QUALITY CONTROL REPORT

Analytes	LQS % REC	LQS/LQSD % Limit							
ICP Metals									
Chromium	82	80-120							

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Page: 5

Project ID: 420-01

Project Name: Labarron Investment

Job Number	Order Date	Client
15730	10/22/2002	FREY

Method: 6010B, Chromium (ICP)

Our Lab ID		95890	95891	95892	95893	95894
Sample ID		B14-5	B14-10	B15-1	B15-5	B15-10
Date Sampled		10/22/2002	10/22/2002	10/22/2002	10/22/2002	10/22/2002
Date Extracted		10/23/2002	10/23/2002	10/23/2002	10/23/2002	10/23/2002
Preparation Method						
Date Analyzed		10/24/2002	10/24/2002	10/24/2002	10/24/2002	10/24/2002
Matrix		Soil	Soil	Soil	Soil	Soil
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Detection Limit Multiplier		1	1	1	1	1
Analytes	POL	Results	Results	Results	Results	Results
ICP Metals						
Chromium	0.50	4.61	2.81	3.81	4.44	3.95

QUALITY CONTROL REPORT

Analytes	LCS % REC	LCS/LCSD % Limit							
ICP Metals									
Chromium	82	80-120							

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Project ID: 420-01

Project Name: Labarron Investment

Job Number	Order Date	Client
15730	10/22/2002	FREY

Method: 6010B, Chromium (ICP)

Our Lab ID	95895	95896	95897	95898	95899
Sample ID	B16-1	B16-5	B16-10	B17-1	B17-5
Date Sampled	10/22/2002	10/22/2002	10/22/2002	10/22/2002	10/22/2002
Date Extracted	10/23/2002	10/23/2002	10/23/2002	10/23/2002	10/23/2002
Preparation Method					
Date Analyzed	10/24/2002	10/24/2002	10/24/2002	10/24/2002	10/24/2002
Matrix	Soil	Soil	Soil	Soil	Soil
Units	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Detection Limit Multiplier	1	1	1	1	1
Analytes	PQL	Results	Results	Results	Results
ICP Metals					
Chromium	0.50	25.4	10.2	3.68	4.18

QUALITY CONTROL REPORT

Analytes	LCS % REC	LCS/LCSD % Limit							
ICP Metals									
Chromium	84	80-120							

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Project ID: 420-01

Project Name: Labarron Investment

Job Number	Order Date	Client
15730	10/22/2002	FREY

Method: 6010B, Chromium (ICP)

Our Lab I.D.	95900	95901	95902	95903
Sample ID	B17-10	B18-3	B19-3	B20-3
Date Sampled	10/22/2002	10/22/2002	10/22/2002	10/22/2002
Date Extracted	10/23/2002	10/23/2002	10/23/2002	10/23/2002
Preparation Method				
Date Analyzed	10/24/2002	10/24/2002	10/24/2002	10/24/2002
Matrix	Soil	Soil	Soil	Soil
Units	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Detection Limit Multiplier	1	1	1	1
Analytes	PQL	Results	Results	Results
ICP Metals				
Chromium	0.50	2.51	10.8	7.85

QUALITY CONTROL REPORT

Analytes	LCS % REC	LCS/LCSD % Limit
ICP Metals		
Chromium	84	80-120

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Attn: Evan Privett

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Project ID: 420-01

Project Name: Labarron Investment

Job Number	Order Date	Client
15730	10/22/2002	FREY

Method: 6010B, Nickel (ICP)

Our Lab ID		95864	95865	95866	95867	95868
Sample ID		B1-2	B1-10	B2-1	B2-10	B3-1
Date Sampled		10/22/2002	10/22/2002	10/22/2002	10/22/2002	10/22/2002
Date Extracted		10/23/2002	10/23/2002	10/23/2002	10/23/2002	10/23/2002
Preparation Method						
Date Analyzed		10/24/2002	10/24/2002	10/24/2002	10/24/2002	10/24/2002
Matrix		Soil	Soil	Soil	Soil	Soil
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Detection Limit Multiplier		1	1	1	1	1
Analytes	PQL	Results	Results	Results	Results	Results
ICP Metals						
Nickel	0.50	11.5	2.02	4.13	3.81	4.66

QUALITY CONTROL REPORT

Analytes	LCS % REC	LCS/LESD % Limit							
ICP Metals									
Nickel	92	80-120							

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Project ID: 420-01

Project Name: Labarron Investment

Job Number	Order Date	Client
15730	10/22/2002	FREY

Method: 6010B, Nickel (ICP)

Our Lab ID		95869	95870	95871	95872	95873
Sample ID		B3-10	B4-1	B4-10	B5-1	B6-1
Date Sampled		10/22/2002	10/22/2002	10/22/2002	10/22/2002	10/22/2002
Date Extracted		10/23/2002	10/23/2002	10/23/2002	10/23/2002	10/23/2002
Preparation Method						
Date Analyzed		10/24/2002	10/24/2002	10/24/2002	10/24/2002	10/24/2002
Matrix		Soil	Soil	Soil	Soil	Soil
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Detection Limit Multiplier		1	1	1	1	1
Analytes	POL	Results	Results	Results	Results	Results
ICP Metals						
Nickel	0.50	3.02	4.35	3.53	12.2	9.19

QUALITY CONTROL REPORT

Analytes	LCS % REC	LCS/LOSD % Limit							
ICP Metals									
Nickel	92	80-120							

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Attn: Evan Privett

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Project ID: 420-01

Project Name: Labarron Investment

Job Number	Order Date	Client
15730	10/22/2002	FREY

Method: 6010B, Nickel (ICP)

Our Lab ID		95874	95875	95876	95877	95878
Sample ID		B7-1	B8-2	B9-2	B10-1	B10-5
Date Sampled		10/22/2002	10/22/2002	10/22/2002	10/22/2002	10/22/2002
Date Extracted		10/23/2002	10/23/2002	10/23/2002	10/23/2002	10/23/2002
Preparation Method						
Date Analyzed		10/24/2002	10/24/2002	10/24/2002	10/24/2002	10/24/2002
Matrix		Soil	Soil	Soil	Soil	Soil
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Detection Limit Multiplier		1	1	1	1	1
Analytes	PQL	Results	Results	Results	Results	Results
ICP Metals						
Nickel	0.50	16.9	11.6	10.5	12.9	2.28

QUALITY CONTROL REPORT

Analytes	LCS % REC	LCS/LCSD % Limit							
ICP Metals									
Nickel	92	80-120							

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Attn: Evan Privett

Page: 11

Project ID: 420-01

Project Name: Labarron Investment

Job Number	Order Date	Client
15730	10/22/2002	FREY

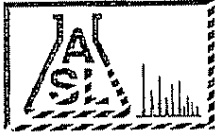
Method: 6010B, Nickel (ICP)

Our Lab ID:	95879	95880	95881	95882	95883
Sample ID	B10-10	B11-1	B11-5	B11-10	B12-1
Date Sampled	10/22/2002	10/22/2002	10/22/2002	10/22/2002	10/22/2002
Date Extracted	10/23/2002	10/23/2002	10/23/2002	10/23/2002	10/23/2002
Preparation Method					
Date Analyzed	10/24/2002	10/24/2002	10/24/2002	10/24/2002	10/24/2002
Matrix	Soil	Soil	Soil	Soil	Soil
Units	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Detection Limit Multiplier	1	1	1	1	1
Analytes	POL	Results	Results	Results	Results
ICP Metals					
Nickel	0.50	2.54	15.5	2.67	31.3

QUALITY CONTROL REPORT

Analytes	LCS % REC	LCS/LCSD % Limit							
ICP Metals									
Nickel	89	80-120							

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Project ID: 420-01

Project Name: Labarron Investment

Job Number	Order Date	Client
15730	10/22/2002	FREY

Method: 6010B, Nickel (ICP)

Our Lab ID	95884	95885	95886	95887	95888
Sample ID	B12-5	B12-10	B13-1	B13-5	B13-10
Date Sampled	10/22/2002	10/22/2002	10/22/2002	10/22/2002	10/22/2002
Date Extracted	10/23/2002	10/23/2002	10/23/2002	10/23/2002	10/23/2002
Preparation Method					
Date Analyzed	10/24/2002	10/24/2002	10/24/2002	10/24/2002	10/24/2002
Matrix	Soil	Soil	Soil	Soil	Soil
Units	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Detection Limit Multiplier	1	1	1	1	1
Analytes	PQL	Results	Results	Results	Results
ICP Metals					
Nickel	0.50	4.84	4.21	51.6	6.03

QUALITY CONTROL REPORT

Analytes	LCS % REC	LCS/LCSD % Limit							
ICP Metals									
Nickel	89	80-120							

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ANALYTICAL RESULTS

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Frey Environmental, Inc.
2817 A Lafayette Ave.
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Site

2100 Orangethorpe Ave.
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Attn: Evan Privett

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Project ID: 420-01

Project Name: Labarron Investment

Job Number	Order Date	Client
15730	10/22/2002	FREY

Method: 6010B, Nickel (ICP)

Our Lab ID	95889	95890	95891	95892	95893
Sample ID	B14-1	B14-5	B14-10	B15-1	B15-5
Date Sampled	10/22/2002	10/22/2002	10/22/2002	10/22/2002	10/22/2002
Date Extracted	10/23/2002	10/23/2002	10/23/2002	10/23/2002	10/23/2002
Preparation Method					
Date Analyzed	10/24/2002	10/24/2002	10/24/2002	10/24/2002	10/24/2002
Matrix	Soil	Soil	Soil	Soil	Soil
Units	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Detection Limit Multiplier	1	1	1	1	1
Analytes	POL	Results	Results	Results	Results
ICP Metals					
Nickel	0.50	71.2	5.30	2.78	67.4

QUALITY CONTROL REPORT

Analytes	LCS % REC	LCS/LCSD % Limit							
ICP Metals									
Nickel	89	80-120							

OCVOCEF 000675



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Project ID: 420-01

Project Name: Labarron Investment

Job Number	Order Date	Client
15730	10/22/2002	FREY

Method: 6010B, Nickel (ICP)

Our Lab I.D.		95894	95895	95896	95897	95898
Sample ID		B15-10	B16-1	B16-5	B16-10	B17-1
Date Sampled		10/22/2002	10/22/2002	10/22/2002	10/22/2002	10/22/2002
Date Extracted		10/23/2002	10/23/2002	10/23/2002	10/23/2002	10/23/2002
Preparation Method						
Date Analyzed		10/24/2002	10/24/2002	10/24/2002	10/24/2002	10/24/2002
Matrix		Soil	Soil	Soil	Soil	Soil
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Detection Limit Multiplier		1	1	1	1	1
Analytes	POL	Results	Results	Results	Results	Results
ICP Metals						
Nickel	0.50	4.61	19.1	11.0	3.87	9.93

QUALITY CONTROL REPORT

Analytes	ICS % REC	ICS/LCSD % Limit							
ICP Metals									
Nickel	91	80-120							

OCVOCEF 000676



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Project ID: 420-01

Project Name: Labarron Investment

Job Number	Order Date	Client
15730	10/22/2002	FREY

Method: 6010B, Nickel (ICP)

Our Lab ID	95899	95900	95901	95902	95903
Sample ID	B17-5	B17-10	B18-3	B19-3	B20-3
Date Sampled	10/22/2002	10/22/2002	10/22/2002	10/22/2002	10/22/2002
Date Extracted	10/23/2002	10/23/2002	10/23/2002	10/23/2002	10/23/2002
Preparation Method					
Date Analyzed	10/24/2002	10/24/2002	10/24/2002	10/24/2002	10/24/2002
Matrix	Soil	Soil	Soil	Soil	Soil
Units	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Detection Limit Multiplier	1	1	1	1	1
Analytes	PQL	Results	Results	Results	Results
ICP Metals					
Nickel	0.50	4.53	2.41	16.4	7.95

QUALITY CONTROL REPORT

Analytes	LCS % REC	LCS/LCSD % Limit							
ICP Metals									
Nickel	91	80-120							

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Project ID: 420-01

Project Name: Labarron Investment

Job Number	Order Date	Client
15730	10/22/2002	FREY

Method: 6010B, Lead (ICP)

Our Lab ID		95864	95865	95866	95867	95868
Sample ID		B1-2	B1-10	B2-1	B2-10	B3-1
Date Sampled		10/22/2002	10/22/2002	10/22/2002	10/22/2002	10/22/2002
Date Extracted		10/23/2002	10/23/2002	10/23/2002	10/23/2002	10/23/2002
Preparation Method						
Date Analyzed		10/24/2002	10/24/2002	10/24/2002	10/24/2002	10/24/2002
Matrix		Soil	Soil	Soil	Soil	Soil
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Detection Limit Multiplier		1	1	1	1	1
Analytes	PQL	Results	Results	Results	Results	Results
ICP Metals						
Lead	0.25	2.23	0.81	1.12	0.95	1.38

QUALITY CONTROL REPORT

Analytes	LCS % REC	LCS/LCSD % Limit							
ICP Metals									
Lead	90	80-120							

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Project ID: 420-01

Project Name: Labarron Investment

Job Number	Order Date	Client
15730	10/22/2002	FREY

Method: 6010B, Lead (ICP)

Our Lab ID		95869	95870	95871	95872	95873
Sample ID		B3-10	B4-1	B4-10	B5-1	B6-1
Date Sampled		10/22/2002	10/22/2002	10/22/2002	10/22/2002	10/22/2002
Date Extracted		10/23/2002	10/23/2002	10/23/2002	10/23/2002	10/23/2002
Preparation Method						
Date Analyzed		10/24/2002	10/24/2002	10/24/2002	10/24/2002	10/24/2002
Matrix		Soil	Soil	Soil	Soil	Soil
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Detection Limit Multiplier		1	1	1	1	1
Analytes	POL	Results	Results	Results	Results	Results
ICP Metals						
Lead	0.25	0.76	1.05	1.01	3.00	2.40

QUALITY CONTROL REPORT

Analytes	LCS % REC	LCS/LCSD % Limit							
ICP Metals									
Lead	90	80-120							

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Project ID: 420-01

Project Name: Labarron Investment

Job Number	Order Date	Client
15730	10/22/2002	FREY

Method: 6010B, Lead (ICP)

Our Lab ID	95874	95875	95876	95877	95878
Sample ID	B7-1	B8-2	B9-2	B10-1	B10-5
Date Sampled	10/22/2002	10/22/2002	10/22/2002	10/22/2002	10/22/2002
Date Extracted	10/23/2002	10/23/2002	10/23/2002	10/23/2002	10/23/2002
Preparation Method					
Date Analyzed	10/24/2002	10/24/2002	10/24/2002	10/24/2002	10/24/2002
Matrix	Soil	Soil	Soil	Soil	Soil
Units	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Detection Limit Multiplier	1	1	1	1	1
Analytes	PQL	Results	Results	Results	Results
ICP Metals					
Lead	0.25	9.51	3.21	4.78	2.61

QUALITY CONTROL REPORT

Analytes	LCS % REC	LCS/LCSD % Limit							
ICP Metals									
Lead	90	80-120							

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Project ID: 420-01

Project Name: Labarron Investment

Job Number	Order Date	Client
15730	10/22/2002	FREY

Method: 6010B, Lead (ICP)

Our Lab ID:	95879	95880	95881	95882	95883
Sample ID	B10-10	B11-1	B11-5	B11-10	B12-1
Date Sampled	10/22/2002	10/22/2002	10/22/2002	10/22/2002	10/22/2002
Date Extracted	10/23/2002	10/23/2002	10/23/2002	10/23/2002	10/23/2002
Preparation Method					
Date Analyzed	10/24/2002	10/24/2002	10/24/2002	10/24/2002	10/24/2002
Matrix	Soil	Soil	Soil	Soil	Soil
Units	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Detection Limit Multiplier	1	1	1	1	1
Analytes	PQL	Results	Results	Results	Results
ICP Metals					
Lead	0.25	0.74	9.71	0.73	0.65

QUALITY CONTROL REPORT

Analytes	LCS % REC	LCS/LCSD % Limit							
ICP Metals									
Lead	90	80-120							

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Project ID: 420-01

Project Name: Labarron Investment

Job Number	Order Date	Client
15730	10/22/2002	FREY

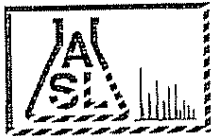
Method: 6010B, Lead (ICP)

Our Lab ID:		95884	95885	95886	95887	95888
Sample ID		B12-5	B12-10	B13-1	B13-5	B13-10
Date Sampled		10/22/2002	10/22/2002	10/22/2002	10/22/2002	10/22/2002
Date Extracted		10/23/2002	10/23/2002	10/23/2002	10/23/2002	10/23/2002
Preparation Method						
Date Analyzed		10/24/2002	10/24/2002	10/24/2002	10/24/2002	10/24/2002
Matrix		Soil	Soil	Soil	Soil	Soil
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Detection Limit Multiplier		1	1	1	1	1
Analytes	PQL	Results	Results	Results	Results	Results
ICP Metals						
Lead	0.25	0.84	1.00	25.7	0.90	0.57

QUALITY CONTROL REPORT

Analytes	LOS	LOS/LOSD							
	% REC	% Limit							
ICP Metals									
Lead	90	80-120							

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Project ID: 420-01

Project Name: Labarron Investment

Job Number	Order Date	Client
15730	10/22/2002	FREY

Method: 6010B, Lead (ICP)

Our Lab ID:		95889	95890	95891	95892	95893
Sample ID		B14-1	B14-5	B14-10	B15-1	B15-5
Date Sampled		10/22/2002	10/22/2002	10/22/2002	10/22/2002	10/22/2002
Date Extracted		10/23/2002	10/23/2002	10/23/2002	10/23/2002	10/23/2002
Preparation Method						
Date Analyzed		10/24/2002	10/24/2002	10/24/2002	10/24/2002	10/24/2002
Matrix		Soil	Soil	Soil	Soil	Soil
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Detection Limit Multiplier		1	1	1	1	1
Analytes	POI	Results	Results	Results	Results	Results
ICP Metals						
Lead	0.25	5.19	1.16	0.57	17.3	0.62

QUALITY CONTROL REPORT

Analytes	LCS % REC	LCS/LCSD % Limit							
ICP Metals									
Lead	90	80-120							

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Project ID: 420-01

Project Name: Labarron Investment

Job Number	Order Date	Client
15730	10/22/2002	FREY

Method: 6010B, Lead (ICP)

Our Lab ID		95894	95895	95896	95897	95898
Sample ID		B15-10	B16-1	B16-5	B16-10	B17-1
Date Sampled		10/22/2002	10/22/2002	10/22/2002	10/22/2002	10/22/2002
Date Extracted		10/23/2002	10/23/2002	10/23/2002	10/23/2002	10/23/2002
Preparation Method						
Date Analyzed		10/24/2002	10/24/2002	10/24/2002	10/24/2002	10/24/2002
Matrix		Soil	Soil	Soil	Soil	Soil
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Detection Limit Multiplier		1	1	1	1	1
Analytes	PQL	Results	Results	Results	Results	Results
ICP Metals						
Lead	0.25	1.24	7.52	2.45	1.01	3.57

QUALITY CONTROL REPORT

Analytes	LCS % REC	LCS/LCSD % Limit							
ICP Metals									
Lead	92	80-120							

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Project ID: 420-01

Project Name: Labarron Investment

Job Number	Order Date	Client
15730	10/22/2002	FREY

Method: 6010B, Lead (ICP)

Our Lab ID	95899	95900	95901	95902	95903
Sample ID	B17-5	B17-10	B18-3	B19-3	B20-3
Date Sampled	10/22/2002	10/22/2002	10/22/2002	10/22/2002	10/22/2002
Date Extracted	10/23/2002	10/23/2002	10/23/2002	10/23/2002	10/23/2002
Preparation Method					
Date Analyzed	10/24/2002	10/24/2002	10/24/2002	10/24/2002	10/24/2002
Matrix	Soil	Soil	Soil	Soil	Soil
Units	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Detection Limit Multiplier	1	1	1	1	1
Analytes	POL	Results	Results	Results	Results
ICP Metals					
Lead	0.25	0.98	1.04	7.76	1.97

QUALITY CONTROL REPORT

Analytes	ICS % REC	ICS/LCSD % Limit							
ICP Metals									
Lead	92	80-120							

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Project ID: 420-01

Project Name: Labarron Investment

Job Number	Order Date	Client
15730	10/22/2002	FREY

Method: 7199, Hexavalent Chromium by Ion Chromatography

Our Lab ID	95864	95865	95866	95867	95868
Sample ID	B1-2	B1-10	B2-1	B2-10	B3-1
Date Sampled	10/22/2002	10/22/2002	10/22/2002	10/22/2002	10/22/2002
Date Extracted	10/25/2002	10/25/2002	10/25/2002	10/25/2002	10/25/2002
Preparation Method					
Date Analyzed	10/25/2002	10/25/2002	10/25/2002	10/25/2002	10/25/2002
Matrix	Soil	Soil	Soil	Soil	Soil
Units	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Detection Limit Multiplier	1	1	1	1	1
Analytes	POL	Results	Results	Results	Results
Conventional					
Chromium (VI)	0.100	0.13	ND	0.24	ND

QUALITY CONTROL REPORT

Analytes	LCS % REC	LCS/LCSD % Limit							
Conventional									
Chromium (VI)	96	80-120							

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Project ID: 420-01

Project Name: Labarron Investment

Job Number	Order Date	Client
15730	10/22/2002	FREY

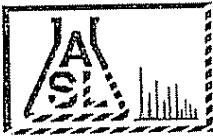
Method: 7199, Hexavalent Chromium by Ion Chromatography

Our Lab I.D.		95869	95870	95871	95872	95873
Sample ID		B3-10	B4-1	B4-10	B5-1	B6-1
Date Sampled		10/22/2002	10/22/2002	10/22/2002	10/22/2002	10/22/2002
Date Extracted		10/25/2002	10/25/2002	10/25/2002	10/25/2002	10/25/2002
Preparation Method						
Date Analyzed		10/25/2002	10/25/2002	10/25/2002	10/25/2002	10/25/2002
Matrix		Soil	Soil	Soil	Soil	Soil
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Detection Limit Multiplier		1	1	1	1	1
Analytes	PQL	Results	Results	Results	Results	Results
Conventional						
Chromium (VI)	0.100	ND	ND	ND	0.32	0.17

QUALITY CONTROL REPORT

Analytes	LCS %REC	LCS/LCSD %Limit							
Conventional									
Chromium (VI)	96	80-120							

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Project ID: 420-01

Project Name: Labarron Investment

Job Number	Order Date	Client
15730	10/22/2002	FREY

Method: 7199, Hexavalent Chromium by Ion Chromatography

Our Lab ID	95874	95901	95902	95903
Sample ID	B7-1	B18-3	B19-3	B20-3
Date Sampled	10/22/2002	10/22/2002	10/22/2002	10/22/2002
Date Extracted	10/25/2002	10/25/2002	10/25/2002	10/25/2002
Preparation Method				
Date Analyzed	10/25/2002	10/25/2002	10/25/2002	10/25/2002
Matrix	Soil	Soil	Soil	Soil
Units	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Detection Limit Multiplier	1	1	1	1
Analytes	POL	Results	Results	Results
Conventionals				
Chromium (VI)	0.100	1.15	0.20	0.17

QUALITY CONTROL REPORT

Analytes	LCS % REC	CS/LCSD % Limit
Conventionals		
Chromium (VI)	95	80-120

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Project ID: 420-01

Project Name: Labarron Investment

Job Number	Order Date	Client
15730	10/22/2002	FREY

Method: 9045C, Soil and Waste pH

Our Lab ID	95872	95873	95874	95901	95902
Sample ID	B5-1	B6-1	B7-1	B18-3	B19-3
Date Sampled	10/22/2002	10/22/2002	10/22/2002	10/22/2002	10/22/2002
Date Extracted	10/23/2002	10/23/2002	10/23/2002	10/23/2002	10/23/2002
Preparation Method					
Date Analyzed	10/23/2002	10/23/2002	10/23/2002	10/23/2002	10/23/2002
Matrix	Soil	Soil	Soil	Soil	Soil
Units	pH Units	pH Units	pH Units	pH Units	pH Units
Detection Limit Multiplier	1	1	1	1	1
Analytes	PQL	Results	Results	Results	Results
Conventionals					
pH	1.00	8.97	8.68	8.47	8.56

QUALITY CONTROL REPORT

Analytes	LCS % REC	LCS/LCSD % Limit							
Conventionals									
pH	100	80-120							

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Project ID: 420-01

Project Name: Labarron Investment

Job Number	Order Date	Client
15730	10/22/2002	FREY

Method: 9045C, Soil and Waste pH

Our Lab ID	95903				
Sample ID	B20-3				
Date Sampled	10/22/2002				
Date Extracted	10/23/2002				
Preparation Method					
Date Analyzed	10/23/2002				
Matrix	Soil				
Units	pH Units				
Detection Limit Multiplier	1				
Analytes	PQL	Results			
Conventional					
pH	1.00	8.84			

QUALITY CONTROL REPORT

Analytes	LCS % REC	LCS/LCSD % Lim							
Conventional									
pH	100	80-120							

OCVOCEF 000690



AMERICAN SCIENTIFIC LABORATORIES, LLC
Environmental Testing Services

2520 N. San Fernando Rd., Los Angeles, CA 90065 Tel: (323) 223-9700 Fax: (323) 223-9500

Ordered By

Frey Environmental, Inc.
2817 A Lafayette Ave.
Newport Beach, CA 92663

Telephone (949) 723-1645
Attn Evan Privett

Number of Pages 28
Date Received 10/22/2002
Date Reported 10/29/2002

Job Number	Ordered	Client
15730	10/22/2002	FREY

Project ID: 420-01
Project Name: Labarron Investment
Site: 2100 Orangethorpe Ave.
Fullerton, CA

Enclosed are the results of analyses on 40 samples analyzed as specified on attached chain of custody.

Anatol MOLKY Brar
Laboratory Manager

Rojert G. Araghi
Laboratory Director

American Scientific Laboratories, LLC (ASL) accepts sample materials from clients for analysis with the assumption that all of the information provided to ASL verbally or in writing by our clients (and/or their agents) regarding samples being submitted to ASL is complete and accurate. ASL accepts all samples subject to the following conditions:

- 1) ASL is not responsible for verifying any client-provided information regarding any samples submitted to the laboratory.
- 2) ASL is not responsible for any consequences resulting from any inaccuracies, omissions, or misrepresentations contained in client-provided information regarding samples submitted to the laboratory.

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Page 1 of 4

ASL JOB# 15730

Company: <u>FREY Environmental Inc.</u>					Report To: <u>Evan Privett</u>		ANALYSIS REQUESTED													
Address: <u>2817-A Lafayette Ave</u>					Project Name: <u>Labarron Investment</u>		Address: <u>2100 orange thorpe</u>		<div>CHROMIUM VI EPA 7196 PH 150.1 Nickel 6010 Total chrome 6010 Total lead 7421</div>											
Newport Beach, CA					Site Address: <u>2100 orange thorpe</u>		Invoice To:													
Telephone: (949) 723-1645					Fullerton, CA		Address:													
Fax: -1854					Project ID: <u>420-01</u>															
Special Instruction:					Project Manager: <u>Evan Privett</u>		P.O.#: <u>420-01</u>													
I T E M	LAB USE ONLY		SAMPLE DESCRIPTION			Container(s)		Matrix	Preservation	Remarks										
	Lab ID	Sample ID	Date	Time	#	Type														
	95864	B1-2	10/22/02		1	Plastic Tube	SOIL			X	X	X								
	95865	B1-10			1															
	95866	B2-1			1															
	95867	B2-10			1															
	95868	B3-1			1															
	95869	B3-10			1															
	95870	B4-1			1															
	95871	B4-10			1															
	95872	B5-1			1	STAINLESS STEEL Tube					X									
	95873	B6-1			2						X									
Collected By:		Date		Time		Relinquished By:		Date		Time		TAT								
Relinquished By: <u>[Signature]</u>		Date <u>10/22/02</u>		Time <u>15:35</u>		Received For Laboratory <u>MOS</u>		Date <u>10/22/02</u>		Time <u>15:35</u>		<input checked="" type="checkbox"/> Normal								
Condition of Sample: <u>Good Condition / chilled</u>						Temp <u>Black</u>		<u>4.2 °C</u>		<u>STP</u>		<input type="checkbox"/> Rush								

White, Brown, Yellow, Labware, Black, Glass

OCVOC EF 000692



AMERICAN SCIENTIFIC LABORATORIES, LLC
Environmental Testing Services

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ASL JOB# 15730

Company: <u>FREY Environmental Inc.</u>				Report To:		ANALYSIS REQUESTED														
Address: <u>2817-A Lafayette Ave</u>				Project Name:		Address:		<div>CHROMIUM 796 PH 150.1 NICKEL 6010 TOTAL CHROME 6010 TOTAL LEAD 7421</div>												
Newport Beach				Site Address:		Invoice To:														
Telephone:						Address:														
Fax:																				
Special Instruction:				Project ID: <u>420-01</u>																
				Project Manager: <u>Evan Privett</u>		P.O.#: <u>420-01</u>														
I T E M	LAB USE ONLY			SAMPLE DESCRIPTION			Container(s)		Matrix	Preservation	Remarks									
	Lab ID	Sample ID	Date	Time	#	Type														
	95874	B7-1	10/22/02		1	STAINLESS STEEL TUBE			X	X	X	X								
	95875	B8-2			1	↓					X	X	X							
	95876	B9-2			1	↓					X	X	X							
	95877	B10-1			1	PLASTIC TUBE														
	95878	B10-5			1	↓														
	95879	B10-10			1	↓														
	95880	B11-1			1	↓														
	95881	B11-5			1	↓														
95882	B11-10			1	↓															
95883	B12-1			1	STAINLESS STEEL TUBE															
Collected By:				Date		Time		Relinquished By:				Date		Time		TAT				
Relinquished By: <u>[Signature]</u>				Date <u>10/22/02</u>		Time <u>15:35</u>		Received For Laboratory <u>[Signature]</u>				Date <u>10/22/02</u>		Time <u>15:35</u>		<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush				
Condition of Sample: <u>G/C Chilled</u>																				

White - Report. Yellow - Laboratory. Pink - Client

OCVOCEF 000693

OCVOC EF 000695